

Final
Remedial Investigation Report
Presidio Main Installation
Presidio of San Francisco

Volume VI
Appendices A-F

Contract No. DAAA15-90-D-0018
Task Order 0002, Data Item A009

DISTRIBUTION STATEMENT A
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Prepared by
 **DAMES & MOORE**

Prepared for
U.S. Army Environmental Center
Aberdeen Proving Ground, Maryland 21010-5401

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13. ABSTRACT (Maximum 200 words)

Dames and Moore has conducted a Remedial Investigation (RI) of the Presidio of San Francisco (PSF), CA. The objectives of the RI included the determination of the nature and extent of contamination at PSF and to quantify both the human health and ecological risk posed by that contamination. The report concludes that, in general, the Presidio does not pose a significant risk to either human health or the environment. There are, however, a number of locations where elevated risks are present. The remedial actions to abate those risks will be identified in a follow-on document called the "Presidio Main Installation, Feasibility Study".

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INSTRUCTIONS FOR UPDATING APPENDICES VOLUMES

**VOLUME VI - FINAL REPORT
APPENDICES A - F**

Volume IV of the Second Revised Draft Final RI Report will become Volume VI of the Final RI Report.

Volume VI - Volume Cover and Spine

The enclosed Volume VI cover and spine will replace Volume IV - Second Revised Draft Final volume cover and spine.

Volume VI - Front Matter (Volume Title Page, Table of Contents and Introduction)

The enclosed Volume VI Front Matter will replace Volume IV-Second Revised Draft Final Front Matter.

Volume VI - Appendix A

The enclosed Volume VI Appendix A will replace Volume IV-Second Revised Draft Final Appendix A.

Volume VI - Appendix C

The enclosed Volume VI Appendix C Title Page will replace Volume IV-Second Revised Draft Final Appendix C Title Page.

The enclosed page 312 and page 313 will be added to Appendix C.

**Final
Remedial Investigation Report
Presidio Main Installation**

Presidio of San Francisco

**Volume VI
Appendices A-F**

Contract No. DAAA15-90-D-0018
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Prepared by
 **DAMES & MOORE**

Prepared for
**U.S. Army Environmental Center
Aberdeen Proving Ground, Maryland 21010-5401**

January 1997

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1. INTRODUCTION

This Final Remedial Investigation (RI) Report presents the results of the Main Installation RI conducted under the direction of the U.S. Army Environmental Center (USAEC), formerly U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) at the Presidio of San Francisco (PSF). This RI report was prepared by Dames & Moore under contract No. DAAA15-90-D-0018 with the USAEC.

Volume VI, this volume, of the Final Remedial Investigation Report contains the following appendices:

- Appendix A Background/PSF Water Supply
- Appendix B Nike Facility
- Appendix C Crissy Field Study Area
- Appendix D Building 900s Series Study Area
- Appendix E DEH Study Area
- Appendix F Main Post Study Area.

The remaining seven volumes contain information as follows: Volume I contains the text of the body of the report. Volume II contains the tables referenced in Volume I. Volumes III through V contain the figures referenced by sections 1 through 15 of Volume I. Volumes VII and VIII contain supporting documentation for the RI in Appendices G through Q and R through U, respectively.

The following report outline shows section and Appendix titles for all eight report volumes and is included in the introduction section of each volume of this RI report.

1.1 Report Outline: Final Remedial Investigation Report Presidio Main Installation, Presidio of San Francisco

The following outline lists the major sections in each of the eight volumes of this RI report.

VOLUME I TEXT

1. Introduction
2. Background
3. Investigation Methods
4. Nike Facility
5. Crissy Field Study Area
6. Building 900s Series Study Area
7. Directorate of Engineering and Housing Study Area
8. Main Post Study Area
9. Fill Sites and Landfills
10. Miscellaneous Sites
11. Golden Gate Bridge Highway and Transportation District Study Area
12. Baker Beach Study Area
13. Battery Howe/Wagner
14. Miscellaneous Follow-on Sites
15. Baseline Risk Assessment
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2. Background
3. Investigation Methods
4. Nike Facility
5. Crissy Field Study Area
6. Building 900s Series Study Area
7. Directorate of Engineering and Housing Study Area
8. Main Post Study Area
9. Fill Sites and Landfills
10. Miscellaneous Sites
11. Golden Gate Bridge Highway and Transportation District Study Area
12. Baker Beach Study Area
13. Battery Howe/Wagner
14. Miscellaneous Follow-on Sites
15. Baseline Risk Assessment

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1. Introduction
2. Background
3. Investigation Methods
4. Nike Facility
5. Crissy Field Study Area

VOLUME IV FIGURES SECTION 6

Introduction

6. Building 900s Series Study Area

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7. Directorate of Engineering and Housing Study Area
8. Main Post Study Area
9. Fill Sites and Landfills
10. Miscellaneous Sites
11. Golden Gate Bridge Highway and Transportation District Study Area
12. Baker Beach Study Area
13. Battery Howe/Wagner
14. Miscellaneous Follow-on Sites
15. Baseline Risk Assessment

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- B Nike Facility
- C Crissy Field Study Area
- D Building 900s Series Study Area
- E DEH Study Area
- F Main Post Study Area

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- G Fill Sites and Landfills
- H Miscellaneous Sites
- I Golden Gate Bridge Highway and Transportation District Study Area
- J Baker Beach Study Area
- K Battery Howe/Wagner
- L Miscellaneous Follow-on Sites
- M Physical Properties Data
- N Geophysical Data
- O Well and Sample Data
- P Transducer Study
- Q Fate and Transport Data

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Introduction

- R IRA Data
- S Soil Gas Data
- T QA/QC Program
- U Risk Calculation Spreadsheets

1.2 Index of Study Areas, Buildings, and Sites, with Section Numbers

The following index shows where each study area, building, and site is discussed in the RI report. Note, however, that although all listed items are discussed, not all listed items are areas which were investigated in this RI. The index can also be cross referenced with Figure 1.2-1.

For space requirements in the index, and for brevity in the rest of this RI report, the Golden Gate Bridge, Highway, and Transportation District Study Area is abbreviated as GGBHTD Study Area. For the same reasons, the Directorate of Engineering and Housing Study Area is abbreviated as DEH Study Area.

Study Area/Building/Site	RI Report Section
Baker Beach Study Area.....	12. Baker Beach Study Area
Battery Howe/Wagner	13. Battery Howe/Wagner
Bone Yard Area	11. GGBHTD Study Area
Bridge District Area (see GGBHTD Study Area)	11. GGBHTD Study Area
Building 1029.....	8. Main Post Study Area
Building 1040.....	8. Main Post Study Area
Building 1057.....	8. Main Post Study Area
Building 1065.....	8. Main Post Study Area
Building 1151.....	8. Main Post Study Area
Building 1152.....	8. Main Post Study Area
Building 1153.....	8. Main Post Study Area
Building 1167.....	8. Main Post Study Area
Building 1244.....	10. Miscellaneous Sites
Building 1245.....	14. Miscellaneous Follow-on Sites
Building 1285.....	13. Battery Howe/Wagner
Building 1287.....	13. Battery Howe/Wagner
Building 1351.....	10. Miscellaneous Sites
Building 1369.....	14. Miscellaneous Follow-on Sites
Building 1388.....	14. Miscellaneous Follow-on Sites
Building 1450.....	4. Nike Facility
Building 1451.....	4. Nike Facility
Building 1750.....	14. Miscellaneous Follow-on Sites
Building 201	8. Main Post Study Area
Building 205 (see Sewer Lift Station 2).....	5. Crissy Field Study Area
Building 206	8. Main Post Study Area
Building 207	8. Main Post Study Area
Building 208	8. Main Post Study Area
Building 215	8. Main Post Study Area
Building 228	8. Main Post Study Area
Building 229	8. Main Post Study Area

Study Area/Building/Site	RI Report Section
Building 230	8. Main Post Study Area
Building 231	8. Main Post Study Area
Building 267	7. DEH Study Area
Building 268	7. DEH Study Area
Building 269	7. DEH Study Area
Building 269	7. DEH Study Area
Building 283	7. DEH Study Area
Building 285	7. DEH Study Area
Building 286	7. DEH Study Area
Building 287	7. DEH Study Area
Building 293	7. DEH Study Area
Building 302	14. Miscellaneous Follow-on Sites
Building 609	5. Crissy Field Study Area
Building 611	5. Crissy Field Study Area
Building 633	5. Crissy Field Study Area
Building 634	5. Crissy Field Study Area
Building 637	5. Crissy Field Study Area
Building 638	5. Crissy Field Study Area
Building 640	5. Crissy Field Study Area
Building 642	5. Crissy Field Study Area
Building 643	5. Crissy Field Study Area
Building 645 (see Sewer Lift Station 1)	5. Crissy Field Study Area
Building 661	10. Miscellaneous Sites
Building 662	10. Miscellaneous Sites
Building 663	10. Miscellaneous Sites
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Building 665	10. Miscellaneous Sites
Building 669	14. Miscellaneous Follow-on Sites
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Building 924	6. Building 900s Series Study Area
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Building 926	6. Building 900s Series Study Area
Building 927	6. Building 900s Series Study Area
Building 929	6. Building 900s Series Study Area
Building 930	6. Building 900s Series Study Area
Building 931	6. Building 900s Series Study Area
Building 933	6. Building 900s Series Study Area
Building 934	6. Building 900s Series Study Area
Building 937	6. Building 900s Series Study Area
Building 949	6. Building 900s Series Study Area
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Building 973	6. Building 900s Series Study Area
Building 974	6. Building 900s Series Study Area

Study Area/Building/Site	RI Report Section
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Building 993	10. Miscellaneous Sites
Building 994	10. Miscellaneous Sites
Building 995	10. Miscellaneous Sites
Building 996	10. Miscellaneous Sites
Building 997	10. Miscellaneous Sites
Building 998	10. Miscellaneous Sites
Building 999	10. Miscellaneous Sites
Consolidated Motor Pool	5. Crissy Field Study Area
Crissy Field Study Area	5. Crissy Field Study Area
Directorate of Engineering and Housing Study Area	7. DEH Study Area
Disturbed Area 1	12. Baker Beach
Disturbed Area 2	12. Baker Beach
Disturbed Area 3	12. Baker Beach
Disturbed Area 4	12. Baker Beach
Disturbed Area E (see Landfill E)	9. Fill Sites and Landfills
East of Mason	14. Miscellaneous Follow-on Sites
Fill Site 1	9. Fill Sites and Landfills
Fill Site 5	9. Fill Sites and Landfills
Fill Site 6	9. Fill Sites and Landfills
Fill Site 7	5. Crissy Field Study Area
Fill Sites and Landfills	9. Fill Sites and Landfills
Fort Point U.S. Coast Guard Station (FPCGS)	10. Miscellaneous Sites
GGBHTD Study Area	11. GGBHTD Study Area
Graded Area 9	9. Fill Sites and Landfills
Landfill 1 (see Fill Site 1)	9. Fill Sites and Landfills
Landfill 2	9. Fill Sites and Landfills
Landfill 3 (see Transfer Station)	9. Fill Sites and Landfills
Landfill 4	9. Fill Sites and Landfills
Landfill 5 (see Fill Site 5)	9. Fill Sites and Landfills
Landfill 6 (see Fill Site 6)	9. Fill Sites and Landfills
Landfill 7 (see Fill Site 7)	5. Crissy Field Study Area
Landfill 9 (see Graded Area 9)	9. Fill Sites and Landfills
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Letterman Army Institute of Research	2. Background
Letterman Army Medical Center	2. Background
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Main Post Study Area	8. Main Post Study Area
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Miscellaneous Sites	10. Miscellaneous Sites
Mountain Lake	10. Miscellaneous Sites
Nike Facility	4. Nike Facility

Study Area/Building/Site	RI Report Section
Paint Operations Area.....	11. GGBHTD Study Area
POL Area.....	5. Crissy Field Study Area
Sewer Lift Station 1.....	5. Crissy Field Study Area
Sewer Lift Station 2.....	5. Crissy Field Study Area
Silo 1.....	4. Nike Facility
Silo 2.....	4. Nike Facility
Silo 3.....	4. Nike Facility
Transfer Station.....	9. Fill Sites and Landfills
Transformer Area.....	11. GGBHTD Study Area
UST Area.....	11. GGBHTD Study Area
Vehicle Maintenance Area.....	6. Building 900s Series Study Area

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Background/PSF Water Supply

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Fill	A-327

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Appendix A
Background/PSF Water Supply
Soil Borings

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Watkins-Johnson Environmental, Inc.
SOIL AND SEDIMENT SAMPLE LOG FORM

Site ID

BK6DSB01

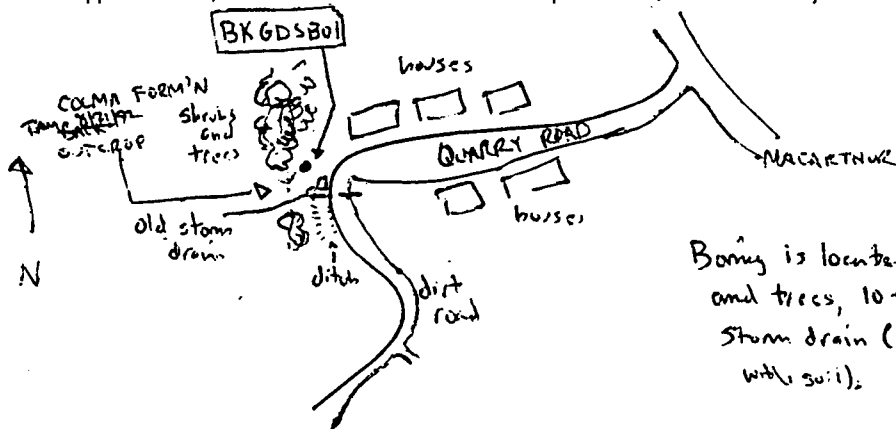
Project Name PSF-SR1	Project No. 0330-130	Total Drilled Depth 6.5 feet	
Drilling Equipment CME SS, 4" ^{1/2} auger	Boring Diameter 6 inch	Date/Time Drilling Started 8/21/92 1520	Date/Time Total Depth Reached 8/21/92 1558
Type of Sampling Device California penetrometer barrel, 18" x 2", 140 lb hammer, 30" inch drop	Geologist T. Miller	Checked by/Date WEF / 9-14-92	

Location Description (include sketch in field logbook)
Logbook pg 09-045. At end of Quarry road in Colma Farm'n uterup; between ditch and trees, 10' from storm drain

Depth (ft)	Sample Interval	% Recovery	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
							Gr	Sa	Fi	
1		NA	SILT, sandy with clay. Dark yellowish brown (10YR4/6). Firm. Uniform, medium grains. Shallow.	ML		MM	-	40	60	Drill straight down to 2 feet, description from cuttings.
2			SAND with silt and clay. Dark yellowish brown (10YR4/6). Medium dense. Medium fine, poorly graded, subround grains. Highly uniform, and continuous.	SM		M	-	70	30	Analytical sample 2.0 to 3.5 feet.
3		100								
4			SAND, trace silt. Dark yellowish brown (10YR4/6). Poorly graded, medium-fine, subround grains. Highly uniform, dense.	SP-SM		MM	-	90	10	Analytical sample
5		100								
6			SAND, as above, with clay, Very dense.	SP-SM		M	-	90	10	
7										

SAMPLE LOCATION SKETCH

(show location of mapped features, distances from these features to sample location, and North arrow)





Project Name PSF SRI		Project No. 0330,130		Coordinates	
Drilling Company HEW		Driller JASPER BOOKER		Ground Elevation	Total Drilled Depth 48.0 ft
Drilling Equipment CME 55		Drilling Method HSA	Boring Diameter 8 in	Date/Time Drilling Started 8-28-92 0920	Date/Time Total Depth Reached 8-28-92 1215
Type of Sampling Device 5ft x 3in split barrel and 18in x 2in stainless steel split spoon w/ brass liners				Water Level (BGS) First NONE Final NONE	
Sample Hammer Type Automatic Driving Wt. 140 lb Drop 30 in				Hydrogeologist GREG PUDLIK	Checked by/Date WEF/9-14-92

Location Description (include sketch in field logbook)

~350' S of Bldg 680 and ~170' E of Park Blvd.

Depth (ft)	Interval	% Recovery	Blow Counts	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
0				(0-2') sand, medium grained, wellsorted, subrounded, subarkose (dune sand), 10YR 5/3 brown, loose	SP		D	95	5		
1		NA	NA								
2			3	(2-3.5') same as above, (dune sand) some roots	SP		D	95	5		collect lab sample 0930 (2-3.5')
3		100	5								
4			6	(3.5-8') same as above, (dune sand)	SP		D	45	5		
5							SM				
6		60									
7											
8				(8-12.5') same as above, (dune sand)	SP		MM	95	5		
9											
10											
11		60									
12											
13				(12.5-13') sand, ^{fine grained} wellsorted, subrounded, subarkose, medium dune, 10YR 6/2 light brownish grey	SP		MM	90	10		



Depth (ft)	Interval	% Recovery	Blow Counts	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
13											
14											
15		50	continuous	(15.5-17.5') sand, medium, well sorted, subrounded, 10YR 5/4 yellowish brown some alternating bands of dark sand up to 3mm thick (10YR 3/1, very dark grey) loose, (dune sand)	SP		M	95	5		
16											
17				(17.5-17.8') sand, medium, well sorted, subround 10YR 3/1 very dark grey, loose	SP		M	95	5		
18				(17.8-18') sand fine well sorted, subrounded w/ alternating light & dark colored bands 1mm thick 10YR 6/1 grey, medium dense	SP		M	90	10		
19											
20		50	continuous	(18-23') sand, medium, well sorted, subrounded, 10YR 5/4 yellowish brown, some alternating bands of dark sand to 3mm (10YR 3/1, very dark grey) loose, (dune sand)	SP		M	95	5		
21											
22											
23											
24				(23-28') same as above, (dune sand)	SP		M	95	5		
25		50	continuous								
26											
27											
28				(28-33') same as above, (dune sand)	SP		M	95	5		
29		60	continuous								
30				interval continues next page							



Depth (ft)	Interval	% Recovery	Blow Counts	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(Include all sample depth, tag number, organic v. measurements)</small>
								Gr	Sa	Fi	
30				(28-33' cont) same as above, (dune sand)	SP		M		95	5	
31		60	continuous								
32											
33				(33-38') same as above, (dune sand)	SP		M		95	5	
34											
35		50	continuous								
36											
37											
38				(38-43') same as above, (dune sand)	SP		M		95	5	
39											
40		60	continuous								
41											
42											
43				(43-48') same as above, (dune sand) darker, 10YR 3/3, dark brown	SP		M		95	5	
44											
45		55	continuous								
46											
47	Interval			continues next page							



Depth (ft)	Interval	% Recovery	Blow Counts	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
47		55	contin.	(43-48 cont) same as above	SP		M		95	5	
48				Total drilled depth = 48.0 ft							



Watkins-Johnson Environmental, Inc.
SOIL AND SEDIMENT SAMPLE LOG FORM

Site ID
BKG65803

Project Name TEPS - PSF	Project No. 0330.130	Total Drilled Depth NA *	
Drilling Equipment NA	Boring Diameter NA	Date/Time Drilling Started NA	Date/Time Total Depth Reached NA
Type of Sampling Device Stainless scoop and Brass liner		Geologist Erik Fuller	Checked by/Date DLA/ 9-11-92

Location Description (include sketch in field logbook)

built up pile of dirt on side of road used for fire access

Depth (ft)	Sample Interval	% Recovery	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
							Gr	Sa	Fi	
0.1			Surface (0.0-0.1') nearly even mixture of gravel, sand and silt, chest roadbase, poorly sorted, angular to subangular, brown (7.5YR 4/3)	Fill			30	40	30	2 samples taken 1435

SAMPLE LOCATION SKETCH

(show location of mapped features, distances from these features to sample location, and North arrow)

see logbook page 12-006
and map included in folder

* sample date = 9-2-92 . no drilling done



Watkins-Johnson Environmental, Inc.
SOIL AND SEDIMENT SAMPLE LOG FORM

Site ID **4**
BKGDSBOX 9-2-92

Project Name TEPS - PSF		Project No. 0330.130		Total Drilled Depth 0.5 ft	
Drilling Equipment HAND AUGER		Boring Diameter 2 inches		Date/Time Drilling Started 9-2-92 - 1524	Date/Time Total Depth Reached 9-2-92 1554
Type of Sampling Device 4 inch Brass lines				Geologist Erik Fuller	Checked by/Date DLA / 9-11-92

Location Description (include sketch in field logbook)

2/3 way up 15' cliff of serpentinite coming up from Baker Beach

Depth (ft)	Sample Interval	% Recovery	Description <small>include in order lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy (structure, density, consistency, etc. as applicable)</small>	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks <small>(include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
							Gr	Sa	Fi	
0.5			(0.0-0.5 ft) weathered serpentinite bedrock, grayish green (5G 5/2)	mmpc	serpentinite	0				

SAMPLE LOCATION SKETCH

(show location of mapped features, distances from these features to sample location, and North arrow)

**see logbook pages 12-007 and 12-008
 and map in folder**



Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

Sheet 1 of 1

Site ID
BKGRDSB05

Project Name PSF1 Follow-on		Project No. 0330-339		Coordinates							
Drilling Company ON SITE SERVICES		Driller Doug Moore		Ground Elevation		Total Drilled Depth					
Drilling Equipment Geoprobe		Drilling Method PERCUSSION		Boring Diameter 1"		Date/Time Drilling Started 12/7/94 1605					
Drilling Equipment Geoprobe		Drilling Method PERCUSSION		Boring Diameter 1"		Date/Time Total Depth Reached					
Type of Sampling Device 1" x 2" Stainless				Water Level (BGS)							
				First		Final					
Sample Hammer Type PERCUSSION Driving Wt. Drop				Hydrogeologist MIKE BOUBIN		Checked by/Date					
Location Description (include sketch in field logbook) 280 FT N of Beach Entrance & 2nd west of the fence.											
Depth (ft)	Interval	Recovery	Blow Counts	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, mineralogy, bedding, plasticity, density, consistency, etc. as applicable)	USCS Symbol	Lithology	Water Content	Estimate % of			Remarks (Include all sample types & depth, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
				SEE lithology for BKGRDSB06 log Book FO9-36							

12-7-94 BKGD CPT-1 10 ft

Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

Page 1 of 1

Site ID
BKSROSB06
WEL 4/19/95

Project Name PRESIDIO R.I.F.O.		Project No. 0330.339		Coordinates 17-	
Drilling Company ONSITE SERVICES		Driller DOUG MOORE		Ground Elevation 10 ft	
Drilling Equipment GEORABE		Drilling Method PERCUSSION		Boring Diameter 1"	
Type of Sampling Device 1" X 2" STAINLESS		Water Level (BGS) First NE Final NE		Date/Time Drilling Started 12-7-94/1535	
Sample Hammer Type PERCUSSION		Driving Wt. N.A. Drop N.A.		Hydrogeologist M. BOUBIN/D. OLGIN	
Location Description (include sketch in field logbook) 30 ft N OF BEACH ENTRANCE & 2 ft WEST OF THE FENCE SEE SKETCH FOR-36		Checked by/Date RT LARSON 3/2/95			

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1				NA		SAND, BROWN, FINE POORLY GRADED LOW DENSITY, ROUNDED - 50 TO 100 MICRONS	M	95	5		G6 @ SURFACE
2				SP		SAND, BROWN SAME AS ABOVE	M	95	5		
3				SP		SAND, BROWN SAME AS ABOVE	M	95	5		
4				SP		SAND, BROWN SAME AS ABOVE	M	95	5		
5				SP		SAND, BROWN SAME AS ABOVE	M	97	3		
6				SP		SAND, BROWN SAME AS ABOVE	M	98	2		
7				SP		SAND, BROWN SAME AS ABOVE	M				
8				SP		SAND, BROWN SAME AS ABOVE WITH MORE COARSE COARSE SAND AND MORE IRON OR ORANGE COLORED PARTICLES	M				
9											
10											
11											
12											

FORM002

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12-8-94 CPT-1 11.0ft BKGD


 Watkins-Johnson Environmental, Inc.
 LITHOLOGY LOG

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BKGD5R07

Site ID

P.C. 128-94

BKGD5R07

Project Name PRESIDIO		Project No. 0330,339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 11.0 FT.
Drilling Equipment GEO PROBE 5400	Drilling Method PERCUSSION	Boring Diameter 1" & 2"	Date/Time Drilling Started 12-8-94/0830	Date/Time Total Depth Reached 12-8-94/0915	
Type of Sampling Device 2" X 4 FT & 1" X 2 FT. STAINLESS			Water Level (BGS)		
Sample Hammer			First NE	Final NE	
Type PERCUSSION	Driving Wt. 14A	Drop 14A	Hydrogeologist D. OLGUIN / H. BOUBIN		
Location Description (include sketch in field logbook)			Checked by/Date PA. DAVENPORT		

55 ft EAST OF BOULEY ST, SOUTH OF THE LINCOLN BLVD INTERSECTION

 SEE SKETCH
 P. F09-37

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description <small>Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.</small>	Water Content	Estimate % of			Remarks <small>(include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
1				NA		SAND - BROWN, LOW DENSITY, ROUNDED FINE SAND, VERY CLEAN w/ SMALL AMOUNTS OF CLAY. 16-40 TYPE SAND. POORLY GRADED VERY LOOSE SAND. 10YR 5/8.	M		90	10	PINE NEEDLES AND Qd SAND AT SURFACE. SPUNE SAND
2				SP							
3											
4											
5											
6				NA SP		SAND, BROWN SAME AS ABOVE	D		95	5	ANALYTICAL SAMPLE COLLECTED @ 5.0 ft
7											
8				NA SP		SAND, SAME AS ABOVE	D		95	5	
9											
10				NA SP		SAND, SAME AS ABOVE	D		95	5	ANALYTICAL SAMPLE COLLECTED @ 9.5 ft
11											
12											

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12-8-94 OPT-1 11.04 BKG


Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG
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BKGDSB08

Site ID 09 12-8-94BKGDSB08

Project Name PRESIDIO		Project No. 0330.339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 11.0 FT
Drilling Equipment GEOPROBE 5400	Drilling Method PERCUSSION	Boring Diameter 1" E 2"	Date/Time Drilling Started 12-8-94/0945	Date/Time Total Depth Reached 12-8-94/1030	
Type of Sampling Device 2" X 4 FT E 1" X 2 FT STAINLESS			Water Level (BGS) First NE Final NE		
Sample Hammer Type PERCUSSION Driving Wt. NA Drop NA			Hydrogeologist DOUGLAS / H. BOON Checked by/Date PA DAVIS 12/8/94		
Location-Description (include sketch in field logbook) 36 ft SW OF THE SENSITIVE HABITAT FENCE, SOUTH OF WEDEMAYER ST. P. FOR-38 SEE SKETCH					

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1					SP	SAND - BROWN, LOW DENSITY ROUNDED POORLY GRADED WITH LITTLE CLAY CLEAN SAND BELOW 10" VERY LOOSE SAND; TREE ROOTS PRESENT TROUGH OUT SAMPLE 7.5 YR 4/6	D	95	5		PINE NEEDLES AND QD AT SURFACE DUNE SAND
2											
3											
4											
5						SAND - BROWN SAME AS ABOVE WITH NO TREE ROOTS	D	97	3		ANALYTICAL SAMPLE COLLECTED @ 5.5 ft 12/5
6					SP						
7						SAND - BROWN SAME AS ABOVE	D	97	3		
8					SP						
9						SAND - BROWN - SAME AS ABOVE	D	97	3		ANALYTICAL SAMPLE COLLECTED @ 9.5 ft 12/5
10					SP						
11											
12											

FORM002

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12-8-94 CP-1 9.5 ft BKGD


Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG
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Site ID

BKGD SB09

Project Name PREVIDA		Project No. 0330.339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 9.5 ft
Drilling Equipment GEO PROBE 5400		Drilling Method PERCUSSION	Boring Diameter 1" x 2"	Date/Time Drilling Started 12-8-94/1100	Date/Time Total Depth Reached 12-8-94/1215
Type of Sampling Device 2' x 4 ft 3" 1" x 2 ft STAINLESS				Water Level (BGS) First NE Final NE	
Sample Hammer Type PERCUSSION Driving Wt. NA Drop NA				Hydrogeologist D. MOORE / M. BOOBIN Checked by/Date PA. D. MOORE 3/5/15	

Location Description (include sketch in field logbook)

31 FT W OF MORAGA 3 INFANTRY TERRACE INTERSECTION SEE SKETCH FOR 39

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1				NA	SC	TOP 2 FT. SAND WITH CLAY, DARK BROWN, MEDIUM DENSE SAND, ROUNDED CLAY IN SAND IS CL	M	80	20		GRASS AND QD AT SURFACE DUNE SAND?
2						5YR 3/4					
3				CH		BOTTOM 3 FT - CLAY, LIGHT BROWN WITH LITTLE TO NO SAND, STIFF CLAY WITH MEDIUM TO HIGH PLASTICITY	M	2	98		THIS APPEARS TO BE CLAY FORMATION BUT COULD BE CONSIDERED UNDIVIDED SURFICIAL DEPOSIT
4						BLOCKY TEXTURE WITH SMALL AMOUNTS OF IRON AND WEATHERED SERPENTINITE.					
5						7.5 YR 5/6					
6				NA	CL	CLAY, LIGHT BROWN, LITTLE TO NO SAND MEDIUM PLASTICITY WITH A BLOCKY TEXTURE, SAND IS SC AND FINE, SMALL AMOUNTS OF IRON NO SERPENTINITE. 7.5 YR 5/6	D	10	90		ANALYTICAL SAMPLE COLLECTED @ 5.5 ft BGS.
7											
8				NA	SC	SAND WITH CLAY, BROWN, DENSE TO VERY DENSE, ROUNDED, MEDIUM COARSE SAND, BLOCKY TEXTURE. CLAY IS CL. 7.5 YR 5/6	D	80	20		AT 7-9 FT DRILLING DIFFICULT
9											
10				SC		SAND SAME AS ABOVE WITH HARD PAN.	D	80	20		HARD PAN AREA UNABLE TO DEAL PAST 9.5 FT. ANALYTICAL SAMPLE COLLECTED @ 9.5 ft BGS.
11											
12											

RM002

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12-7-94 BKGD CPT-1 18fe

(3)



Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

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Site ID
BKGD5B10

Project Name PRESIDIO R.I.F.O.		Project No. 0330.339		Coordinates							
Drilling Company USITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 18 FE						
Drilling Equipment GEOPROBE 5400		Drilling Method PERCUSSION	Boring Diameter 2"	Date/Time Drilling Started 12-7-94/1315	Date/Time Total Depth Reached 12-7-94						
Type of Sampling Device 2"x4' & 1"x2' STAINLESS				Water Level (BGS) First NE Final NE							
Sample Hammer Type PERCUSSION Driving Wt. NA Drop NA				Hydrogeologist R. O'GUIN/M. MOUBIN Checked by/Date RT LEESON 3/2/95							
Location Description (include sketch in field logbook) 5 FE NORTH OF NKGW3 SEE SKETCH P F09-25											
Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description <small>Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.</small>	Water Content	Estimate % of			Remarks <small>(Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
1				NA		SAND - BROWN, BEACH TYPE, FINE ROUNDED, 7.5 VR 5/8, WELL GRADED	W		95	5	SEE LITHOLOGY LOG NKGW3 Qd @ SURFACE
2											
3											
4											
5											
6						SAND, DARK BROWN, WITH FINES ROUNDED, POORLY GRADED, - 50 TO +200 SIEVE SIZE, BEACH TYPE 5 VR 2.5/2	M		30	20	
7				SP SM							
8											
9											
10											
11											
12											

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Site ID

BKGD SB 10

[illegible]

A-18

12-7-94 BKGD CPT-1 11 ft

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Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG
Page 1 of 1

Site ID

BKGD5B11

Project Name PRESIDIO R.I.F.O.		Project No. 0330.339		Coordinates N.1434261.9 E477824.7 STP	
Drilling Company UNSERVICES		Driller RONALD MOORE		Ground Elevation	Total Drilled Depth 11 ft
Drilling Equipment GEOPROBE 5400	Drilling Method 2" Percussion	Boring Diameter 2"		Date/Time Drilling Started 12-7-94/0815	Date/Time Total Depth Reached 12-7-94/0900
Type of Sampling Device 2" x 4' & 1" x 2" STAINLESS				Water Level (BGS) First NE Final NE	
Sample Hammer Type PERCUSSION Driving Wt. NA Drop NA		Hydrogeologist D. OLGUN / M. BOUBIN		Checked by/Date R. LEESON 3/2/95	

Location Description (include sketch in field logbook)

NW OF DAE OFF OF HICK'S ROAD

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1						TOP 18" - CLAY, DARK BROWN, MEDIUM FIRM, LOW PLASTICITY, 10% COARSE SANDS WITH 90% CLAYS 7.5YR5/6	D		10	90	GLASS @ SURFACE
2						MIDDLE 12" - CLAY DARK BROWN MIXED WITH LIGHT BROWN OR COALMA, MEDIUM FIRM, MEDIUM PLASTICITY, 5% FINE SAND, 7.5YR3/2	M		20	80	Gc
3						BOTTOM 18" - SANDS, LIGHT BROWN, LOW DENSITY, SMALL EDGED SAND WITH CLAY MOSTLY COALMA. 7.5YR 5/6	M		80	20	
4						CLAY, BROWN, MEDIUM FIRM, LOW TO MEDIUM PLASTICITY, 100% COALMA 7.5YR 5/6	D				
5											
6						SAND w/ CLAY, LT BROWN, 10YR5/4, MED. LOOSE, POORLY GRADED, CLAY IS CL, SAND IS FINE	M		70	30	
7											
8						SAND w/ CLAY AS ABOVE	M		70	30	
9											
10						SAND w/ CLAY AS ABOVE	M		70	30	
11											
12											

FORM002

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12-7-94 BKGD CPT-1 11 ft



Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

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Site ID
BKGD5B12

Project Name PRESIDIO		Project No. 0330.339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 11 ft
Drilling Equipment GEO PROBE 5400		Drilling Method PERCUSSION	Boring Diameter 2"	Date/Time Drilling Started 12-7-94/0930	Date/Time Total Depth Reached 12-7-94/10
Type of Sampling Device 1" x 2' 3" 2" x 4'				Water Level (BGS) First NE Final NE	
Sample Hammer Type PERCUSSION		Driving Wt. NA Drop NA		Hydrogeologist D. ALGUIN/M. BOBWIN	
Location Description (include sketch in field logbook) See site map				Checked by/Date RT L. CASSIN 3/2/95	

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description <small>Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.</small>	Water Content	Estimate % of			Remarks <small>(Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)</small>
								Gr	Sa	Fi	
1				NA	SC	SAND w/CLAY, LT BROWN, 10/RS/4, LOOSE, ROUNDED, POORLY GRADED, ROOTS PRESENT	M		70	30	GRASS @ SURFACE TOPSOIL & Gc @ 0.3 ft bgs
2											
3											
4											
5				NA	SC	SAND w/CLAY SAME AS ABOVE	M		70	30	
6											
7											
8											
9											
10											
11											
12											

12-8-94 CPT-1 11.5 ft BKGD

Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

Page 1 of 1

Site ID
BKGD5813

Project Name PRESIDIO R.I.F.D.		Project No. 0330.339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 11.5 ft ^{NB} 12.7 ft
Drilling Equipment GEOPROBE 3400		Drilling Method PERCUSSION	Boring Diameter 1" & 2"	Date/Time Drilling Started 12-7-94/1045	Date/Time Total Depth Reached 12-7-94/1115
Type of Sampling Device 2" X 4 FT & 1" X 2 FT				Water Level (BGS) First N.E. Final N.E.	
Sample Hammer Type PERCUSSION Driving Wt. 14A Drop N/A				Hydrogeologist D. OLGUIN / M. BOUBIN PA DAVENPORT	
Location Description (include sketch in field logbook) APPROX 520 FT NORTH & 250 FT EAST OF THE WASHINGTON BLVD. / ARGUELLO BLVD. INTERSECTION					

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (Include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1						TOP 36" - SAND WITH CLAY, BROWN, LOW DENSITY, POORLY GRADED, LOOSE FINE. CLAY IS A CL-10YR 2/2	M	70	30		TOP 2" GRASS & ROOTS
2						BOTTOM 12" - CLAY WITH SAND, LIGHT BROWN, SOFT, MEDIUM PLASTICITY, BLOCKY TEXTURE					COLMA FORMATION
3						EASILY MOULDED - 10YR 4/6 MOISTURE THEO ALL 48"	M	20	80		
4											
5						SAND WITH CLAY, LIGHT BROWN, LOW DENSITY POORLY GRADED VERY LOOSE SAND, ROUNDED FINE SAND	D	90	10		ANALYTICAL SAMPLE COLLECTED 5.0 ft bss
6						CLAY IS A CL 10YR 5/6					
7						SAND WITH CLAY, LIGHT BROWN, LOW DENSITY POORLY GRADED VERY LOOSE, ROUNDED SAND VERY DIRTY	D	90	10		
8						16-40 TYPE SAND CLAY IS CL 10YR 5/6					
9											
10						SAND, LIGHT BROWN, LOW DENSITY, POORLY GRADED, FINE LOOSE TO VERY LOOSE SAND WITH A SMALL AMOUNT OF CLAY	D	90	10		ANALYTICAL SAMPLE COLLECTED @ 9.5 ft bss
11						STILL 16-40 TYPE 10YR 5/6					
12											

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12-8-94 CPT-1 2.0E BKGD



Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

Page 1 of 1

Site ID
BKGD SB 14

Project Name <u>PRESIDIO</u>			Project No. <u>0330.339</u>			Coordinates					
Drilling Company <u>ON SITE SERVICES</u>			Driller <u>DOUG MOORE</u>			Ground Elevation		Total Drilled Depth <u>2 ft</u>			
Drilling Equipment <u>GEOPROBE 5400</u>		Drilling Method <u>PERCUSSION</u>		Boring Diameter <u>1" E 2"</u>		Date/Time Drilling Started <u>12-8-94/1345</u>		Date/Time Total Depth Reached <u>12-8-94/1530</u>			
Type of Sampling Device <u>1' X 2 FT E 2' X 4 FT STAINLESS</u>						Water Level (BGS) First <u>NE</u> Final <u>NE</u>					
Sample Hammer			Driving Wt. <u>NA</u> Drop <u>NA</u>			Hydrogeologist <u>D. OLGUIA / M. BOUBIN</u>		Checked by/Date <u>JA PAVENPORT 3/5/95</u>			
Location Description (include sketch in field logbook) <u>APPROX 30 FT W OF ARGUELLO BLVD ACROSS FROM INSPIRATION PT SKETCH FOR-40</u>											
Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Sills & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
1				NA	CL	CLAY OVERBURDEN ON TOP 12"-DARK BROWN, SOFT w/ MEDIUM PLASTICITY. WEATHERED SERPENTINITE - OLIVE GREEN, BROWN AND BLACK, SOFT, MEDIUM PLASTICITY, MOIST.	M			100	SP @ 1.5 FT BED ROCK @ 2 FT
2										595	ANALYTICAL SAMPLES FROM 1-2 ft bgs
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

12-8-94 CPT-1 20.5ft BKGD



Watkins-Johnson Environmental, Inc.
LITHOLOGY LOG

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Site ID
BKGD5B14 MB

Project Name PRESIDIO R.I.F.O.		Project No. 0330.339		Coordinates	
Drilling Company ON SITE SERVICES		Driller DOUG MOORE		Ground Elevation	Total Drilled Depth 21.0 ft
Drilling Equipment GEOPROBE 5400		Drilling Method PERCUSSION	Boring Diameter	Date/Time Drilling Started 12-8-94/1630	Date/Time Total Depth Reached 12-8-94/1655
Type of Sampling Device 1" x 2" STAINLESS				Water Level (BGS) First NE Final NE	
Sample Hammer Type PERCUSSION		Driving Wt. N.A. Drop N.A.		Hydrogeologist M. BOWEN / O. ULGUND	
Checked by/Date 3/3/95 PA. PHILLIPS					

Location Description (include sketch in field logbook)

WEST SIDE OF WASHINGTON BLVD. SOUTH PART OF LFS - SKETCH AS F09-41

Depth (ft)	Interval	% Recovery	Blow Counts	USCS Symbol	Lithology	Description Sands & Gravels: name, color, density, roundness, gradation, grain size, mineralogy, minor constituents structure, notable char., moisture, odor, geo. unit. Silt & Clays: name, color, consistency, toughness, plasticity, minor constituents, notable char., moisture, odor, geo. unit.	Water Content	Estimate % of			Remarks (include all sample types & depth, tag number, odor, organic vapor measurements, etc.)
								Gr	Sa	Fi	
2						FOR COMPLETE LOG SEE LOG FOR LFS6W02					QC@ SURFACE
4											COLMA FORMATION
6											
8											
10											
12											
14											
16				NA CL		CLAY, OLIVE, 5Y 5/4, HARD, LOW PLASTICITY SERPENTINITE GRAINS PRESENT, WEATHERED SERPENTINITE	D		5	95	ANALYTICAL SAMPLE COLLECTED @ 14.5 ft bgs
18											
20				NA CL		CLAY AS ABOVE, VERY HARD	D		5	95	ANALYTICAL SAMPLE COLLECTED @ 20.5 ft bgs
22											
24											

FORM002

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R. L. STOLLAR & ASSOCIATES, INC.
FIELD LOG OF BORING

SITE TYPE

SITE ID

BORING

BKG5001A:B

SHEET 1 OF 1

PROJECT NAME AND LOCATION TERB: Presidio / 280' W of Marshall St. between Allen & Mason St.		PROJECT NUMBER 90330		ELEVATION AND DATUM	
DRILLING COMPANY RLSA		DRILLER Gary Clendenen		DATE AND TIME STARTED 90330 / 1420	
DRILLING EQUIPMENT: METHOD Hand Auger		COMPLETION DEPTH 4.8'		DATE AND TIME COMPLETED 90330 / 1550	
SIZE AND TYPE OF BIT 3 1/2"		NO. OF SAMPLES: 2		TOTAL NO. OF SAMPLES 2	
DRILLING FLUID NA		WATER LEVEL: 4.8' @ 1550		AFTER _____ HOURS	
SAMPLER HAMMER TYPE NA		DRIVING WT. DROP		HYDROGEOLOGIST/DATE Gary Clendenen / 90330	
				CHECKED BY/DATE C. Clendenen / 90333	

DEPTH/FEET	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI				
0					Surface - Grassy w/ small pebbles	SW							BKG5001A 7"-12"
1		↓			SAND - brown, partly sorted sand ^{4.5' sandstone pebbles}	SM	75	80	5	Dry			10YR/5/3, ^{SHADE 6.5/1.0} small pebbles
2		↓			SAND - pale yellow, med. sorted, sub. rounded, fairly clean, gtz & sandstone grains	SP		95	5	Dry			5Y/7/4, Clean beach sand.
3													
4		↓			SAND - same as above, except moist	SP		95	5	Moist			Moist clean beach sand
5		↓			SAND - @ 4.8' Wet / 1550 same as above except gray								Wet, gray sand
6					Total Depth 4.8'								BKG5001B = 4.5-4.8'
7													
8													
9													
10													
11													
12													
13													
14													
15													

R. L. STOLLAR & ASSOCIATES, INC.
FIELD LOG OF BORING

SITE TYPE SITE ID

BORING BKG5002AEB

SHEET 1 OF 1

PROJECT NAME AND LOCATION <i>TEPS - Presidio / courts in Julius Kuhn Program</i>				PROJECT NUMBER <i>90330</i>		ELEVATION AND DATUM			
DRILLING COMPANY <i>RLSA</i>				DRILLER <i>Gary Clendenin</i>		DATE AND TIME STARTED <i>90331 / 1000</i>		DATE AND TIME COMPLETED <i>90331 / 1055</i>	
DRILLING EQUIPMENT: METHOD <i>Hand Auger</i>				COMPLETION DEPTH <i>3.5'</i>		TOTAL NO. OF SAMPLES <i>2</i>			
SIZE AND TYPE OF BIT <i>3/8"</i>				NO. OF SAMPLES <i>2</i>		BULK <i>2</i>		SS	
DRILLING FLUID <i>NA</i>				WATER LEVEL:		FIRST		AFTER _____ HOURS	
SAMPLER HAMMER TYPE <i>NA</i> DRIVING WT. DROP				HYDROGEOLOGIST/DATE <i>Gary Clendenin</i>				CHECKED BY/DATE <i>C. Schmitt 90333</i>	

DEPTH/FEET	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI				
0					Surface - SAND - brown, well-sorted, sub-rounded, grains 0.075-0.425 mm	SP	95	5		Moist			10 YR / 5/3
1					8" 10" SAND - same as above	SP	95	5		Moist			Some partially decayed organic matter 0.5-1.0 BKG50 #2A
2													
3					SAND - same as above	SP	95	5		Moist			3.0-3.5 BKG50 #2B
4					TD = 3.5' Could not auger below 3.5' because the loose sand caved into bottom of hole.								
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

R. L. STOLLAR & ASSOCIATES, INC.

FIELD LOG OF BORING

SITE TYPE

SITE ID

BORING

BKG5003A

SHEET 1 OF 1

PROJECT NAME AND LOCATION <i>TEPS PRESIDIO / Avenue behind Bldg. 934</i>				PROJECT NUMBER <i>90330</i>		ELEVATION AND DATUM			
DRILLING COMPANY <i>RLSA</i>				DRILLER <i>Say Clendenin</i>		DATE AND TIME STARTED <i>90331 / 0830</i>		DATE AND TIME COMPLETED <i>90331 / 0840</i>	
DRILLING EQUIPMENT: METHOD <i>Hand trowel</i>				COMPLETION DEPTH <i>4"</i>		TOTAL NO. OF SAMPLES <i>1</i>			
SIZE AND TYPE OF BIT <i>NA</i>				NO. OF SAMPLES: <i>1</i>		BULK <i>1</i>		SS	
DRILLING FLUID <i>NA</i>				WATER LEVEL:		FIRST		AFTER _____ HOURS	
SAMPLER HAMMER TYPE <i>NA</i>				DRIVING WT.		DROP		HYDROGEOLOGIST/DATE <i>Say Clendenin / 90331</i>	
CHECKED BY/DATE <i>CSchmitt / 90333</i>									

DEPTH FEET	SAMPLES				DESCRIPTION	USCS SYMBOL	ESTIMATED PERCENT OF			MOISTURE	CONSISTENCY	COLOR	COMMENTS
	TYPE AND NUMBER	INTERVAL	RECOVERY	BLOW COUNT			GR	SA	FI				
0					Surface-weathered serpentine bedrock 1"-3"-Bedrock-secantite, greenish gray								567/66, highly weathered, granular BKG5003A 1"-4"
1					TP = 4" @ 0840/90331								
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

Appendix A
Background/PSF Water Supply
Source Water Sampling Sheets

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R. L. STOLLAR & ASSOCIATES, INC.
WATER QUALITY FIELD SAMPLING DATA SHEET

PROJECT PRESIDIO SAMPLERS BS

PROJECT NUMBER 90330.030

WELL NO. 316 SUPERVISOR BS

DATE SAMPLED 2/8/91 91039 TIME SAMPLED 0900

PURGE 2/7/91

PUMP TEST - pump ran ~ 5.5 hours
~ 80,000 gal (holding tanks full)

SAMPLE PARAMETERS

CALIBRATION: EC STD = 1410 μ mhos/cm

1317 EC = 900 @ 13°C pH 7 = 7.0 @ 25°C slope

pH = 7.07 @ 11.2°C pH 10 = 9.84 @ 14.1°C

sampled for pest, metals, + ions

MEASURING POINT TOC WELL DIAMETER (ID) 12-18" ?

WATER LEVEL 15.50 DATE 2/8/91 TIME 0823 WELL DEPTH +200

SCREENED INTERVAL NA SINGLE WELL VOLUME (Gallons) NA

PURGE PUMPING RATE ~100 GPM PURGE VOLUME (Gallons) ~80,000

DEPTH OF SAMPLING NA

SAMPLE PUMPING RATE NA NO. OF SAMPLES 6

NO. OF SAMPLES RELINQUISHED 6 TO DATA CHEM DATE 2/8/91

FIELD EQUIPMENT

Env/pH METER ORION SA230 SERIAL NO. 4938

EC. METER YSI 33 SERIAL NO. 13003

PUMP NA SERIAL NO. NA

TUBING TYPE —

WATER LEVEL METER SOCINST SERIAL NO. 09718

FILTER APPARATUS GEOPUMP 2 FILTERS GELMAN 0.45 μ m

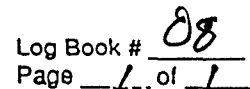
BAILER — SIZE —

ENVIRONMENTAL PROGRAM AT PRESIDIO OF SAN FRANCISCO
GROUND-WATER SAMPLING FIELD DATA SHEET

Log Book # 10
Page 1 of 1

[illegible]

[illegible]



Julianne Turke
Sampler Signature:

GROUND-WATER SAMPLING FIELD DATA SHEET
Environmental Program at Presidio of San Francisco

Log Book # 14
Page 1 of 1

Well ID No. S0RGWOG		Date 8-28-92		Purge Equipment: Type <u>from tap w/ hose</u> Serial No. _____		pH Meter: Type <u>Hydarc</u> Serial No. <u>000261</u>		Conductivity Meter: Type <u>same as</u> Serial No. <u>pH meter</u>	
Samplers' Initials WEF / TDF		Time 1430		Sample Equipment: <input type="checkbox"/> Same as purge <input checked="" type="checkbox"/> Other Type <u>no hose</u> Serial No. _____		Turbidity Meter: <u>AFT Instrument S</u> Type <u>DRT-15C</u> Serial No. <u>000307</u> <u>0.02 NTU of Standard</u>		Temperature Meter: Type <u>same as</u> Serial No. <u>pH meter</u>	
Casing Diameter NA in.		Casing Stickup NA ft.		Filtration Equipment: <input checked="" type="checkbox"/> Peristaltic Pump with 0.45 micron filter <input type="checkbox"/> Other Type <u>geopump</u> Serial No. <u>000906</u>		Meter Calibration Check (circle one)			
Total Well Depth NA ft-btoc		Screened Interval NA ft-bgs				Standard Reading Temperature °F (circle one) Time			
Initial Water Level NA ft-btoc		Top of Filter Pack NA ft-bgs				1000 uS/cm 1000 68.7 1435			
Saturated Thickness [H]= NA ft.		Filter Pack Thickness [F]= NA ft.				at ____ °C NA NA			
Wellbore Volume NA gal.		Casing Volume NA gal.				pH 4.0 ← →			
Final Water Level NA ft-btoc		Sample Depth NA ft-bgs				pH 7.0 7.00 69.0 1431			
						pH 10.0 10.00 68.6 1433			
						Water-Level Meter Type <u>NA</u> Serial No. <u>NA</u>			
Time	Number of Casing Volumes	Gallons Removed	Temp C/F	EC uS/cm	pH	Turbidity NTU	Pump Rate GPM	Approx. Pump Depth ft.	Visual Description
1438	NA	initial	65.5	545	6.76	0.69	15	NA	clear
1445	NA	105	65.1	538	7.06	0.59	"	NA	clear
1448	NA	150	64.7	534	7.08	0.36	"	NA	clear
1451	NA	195	65.1	538	7.09	0.35	"	NA	clear
1454	NA	240	65.4	538	7.08	0.35	"	NA	clear
NAPE 8-28-92									
Post-Sample Water:		1545	66.9	567	7.42	0.55	-	NA	clear
HS Comments: NO HPS present				<input checked="" type="checkbox"/> Full Sample Suite Obtained <input type="checkbox"/> Partial Sample Suite Obtained <input type="checkbox"/> No Sample Obtained <input type="checkbox"/> QC Samples D, R, TB, MS, MSD (circle) See chain-of-custody for analyses requested.				Condition of Well, Remarks: established well, sampling from top, purging through a hose Samplers Signature: <u>Eud Zeller</u>	
Protective Level Dermal: <u>C</u> <u>B</u> Respiratory: <u>C</u> <u>B</u>				<input checked="" type="checkbox"/> Metal sample(s) filtered in accordance with chain-of-custody				Checked by/Date: <u>DHA 9-11-92</u>	

ft-btoc = feet-below top of casing
ft-bgs = feet-below ground surface

FORM 014/AUG 1992



GROUND-WATER SAMPLING FIELD DATA SHEET
Environmental Program at Presidio of San Francisco

Log Book # 13-048
Page 131 of 048
DATE 9/9/92

Well ID No. PSEGW13		Date 9/9/92		Purge Equipment: Type Metal pipe Serial No. ~ 6" diameter		pH Meter: Type Orion SA230 Serial No. 4938		Conductivity Meter: Type Orion Serial No. 9811077	
Samplers' Initials ESK/KRG		Time 1452		Sample Equipment: <input checked="" type="checkbox"/> Same as purge <input type="checkbox"/> Other Type _____ Serial No. _____		Turbidity Meter: Type HF Scientific Serial No. 000316 0.02 NTU of Standard		Temperature Meter: Type same as pH Serial No. _____	
Casing Diameter NA in.		Casing Stickup NA ft.		Filtration Equipment: <input checked="" type="checkbox"/> Peristaltic Pump with 0.45 micron filter <input type="checkbox"/> Other Type geopump Serial No. EILCO 000905		Meter Calibration/Check (circle one) Standard 1084 uS/cm at 19.6 °C		Temperature Reading 1456 °F (circle one) Time 1501	
Total Well Depth NA ft-btoc		Screened Interval NA ft-bgs		Saturated Thickness [H] = NA ft.		Filter Pack Thickness [F] = NA ft.		Wellbore Volume NA gal.	
Initial Water Level NA ft-btoc		Top of Filter Pack NA ft-bgs		Casing Volume NA gal.		Final Water Level NA ft-btoc		Sample Depth NA ft-bgs	
Time	Number of Casing Volumes	Gallons Removed	Temp °F	EC uS/cm	pH	Turbidity NTU	Pump Rate GPM	Approx. Pump Depth ft.	Visual Description
1504	NA	1500	17.0	583	6.41	2	150	NA	clear
1509	NA	2250	16.2	580	6.78	3	150	NA	clear
1512	NA	2700	16.3	581	6.92	1	150	NA	clear
1515	NA	3150	16.0	580	6.94	<1	150	NA	clear
1520	NA	3900	17.1	580	6.96	<1	150	NA	clear
Post-Sample Water: 1554		16.2		584	7.01	<1			clear
HS Comments: D-mad				<input checked="" type="checkbox"/> Full Sample Suite Obtained <input type="checkbox"/> Partial Sample Suite Obtained <input type="checkbox"/> No Sample Obtained <input type="checkbox"/> QC Samples D, R, TB, MS, MSD (circle) See chain-of-custody for analyses requested.				Condition of Well, Remarks: Obtain key from MR: Smith / Phil Ray Samplers Signature: Shelley	
HS Signature: D-mad				<input checked="" type="checkbox"/> Metal sample(s) filtered in accordance with chain-of-custody				Checked by/Date: WEP/9-14-92	
Protective Level Dermal: Respiratory:									

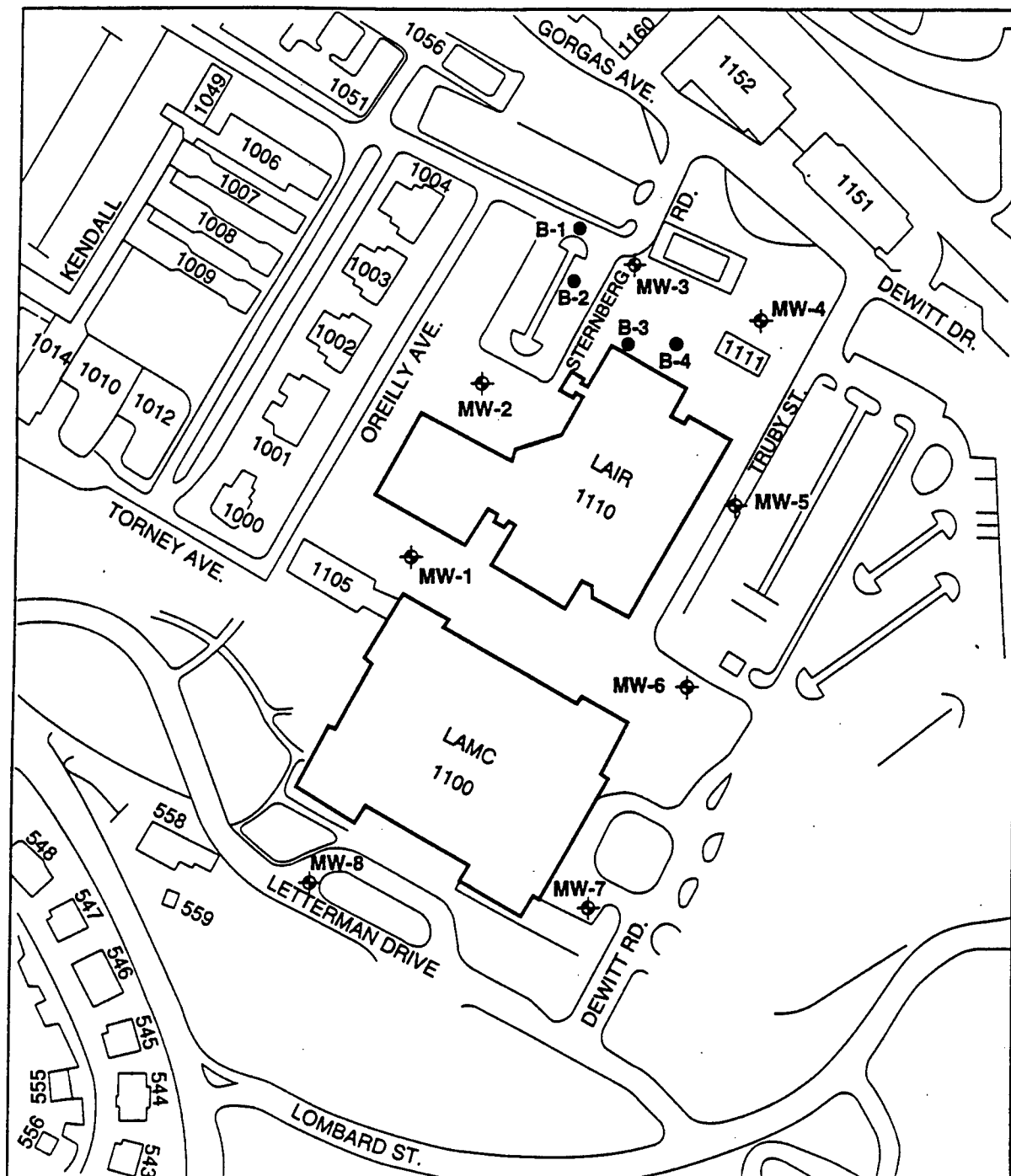
ft-btoc = feet-below top of casing
ft-bgs = feet-below ground surface

FORM014/AUG 1992

A-34

Appendix A
Background/PSF Water Supply
LAMC and LAIR Data

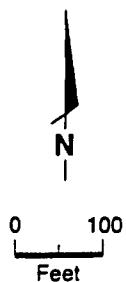
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KEY

- ◆ Monitoring Well
- Soil Boring with Hydropunch Sample

Note:
Monitoring wells MW-6,
MW-7, and MW-8 were
installed during a separate
investigation.



SITE PLAN

National Park Service
6411204811DSCIAUGUST 1995
02050-189-043

Golden Gate National Recreation Area
Presidio of San Francisco
ENVIRONMENTAL CONDITION ASSESSMENT

 DAMES & MOORE

**SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER
METALS
LETTERMAN ARMY INSTITUTE OF RESEARCH
PRESIDIO OF SAN FRANCISCO**

Analytical Method	Well Number	MW-1		MW-2		MW-3		MW-4		MW-5		MCL ^a (µg/l)
	Date Sampled	8/15/94	2/8/95	2/8/95	8/15/94	2/7/95	8/15/94	2/7/95	8/15/94	8/15/94	8/15/94	
Laboratory Reporting Limit				(Filtered)				(Filtered)				
Aluminum	200 µg/l	71,600	6,700	ND	32,800	4,900	49,100	45,000	23,500	15,900	1,000/200 ^a	
Antimony	5.0 µg/l	ND ^b	—	—	ND ^b	—	ND ^b	ND ^b	ND ^b	ND	6	
Arsenic	3.0 µg/l	5.8	—	—	7.4	—	9.3	9.5	3.6	ND	50	
Barium	20 µg/l	250	—	—	129	—	219	197	54.3	223	1,000	
Beryllium	1.0 µg/l	2.3	—	—	1.2	—	1.7	1.6	ND	ND	4	
Cadmium	1.0 µg/l	ND	—	—	ND	—	ND	ND	ND	ND	5	
Calcium	2,000 µg/l	55,700	37,000	35,000	55,400	50,000	58,900	56,600	50,700	34,800	•	
Chromium (total)	10 µg/l	246	78	26	206	72	240	226	60.7	105	50	
Cobalt	5.0 µg/l	103	—	—	59.0	—	80.1	68.8	15.7	27.0	•	
Copper	10.0 µg/l	45.4 ^c	18	—	43.1 ^c	ND ^a	35.9 ^c	33.6 ^c	20.4 ^c	36.8 ^c	1,000 ^a	
Iron	100 µg/l	209,000	14,000	ND ^a	103,000	11,000	148,000	136,000	33,900	24,500	300 ^a	
Lead	2.0 µg/l	28.4	—	—	32.2	—	40.6	37.2	11.6	11.4	•	
Magnesium	2,000 µg/l	72,900	40,000	—	71,700	60,000	71,500	68,300	56,700	59,100	•	
Manganese	15 µg/l	2,400	170	7 ^a	1,020	130	1,580	1,430	652	701	50 ^a	
Mercury	0.20 µg/l	ND	—	—	ND	—	ND	ND	ND	ND	2	
Nickel	20 µg/l	317	54	ND ^a	237	57	312	295	60.2	82.8	100	
Potassium	2,000 µg/l	7,660	1,300 ^a	1,300 ^a	5,650	1,600 ^a	5,520	5,290	7,300	3,110	•	
Selenium	3.0 µg/l	4.1	—	—	ND	—	ND	ND	ND	ND	50	
Silver	10 µg/l	ND	—	—	ND	—	ND	ND	ND	ND	100 ^a	
Sodium	500 µg/l	84,500	58,000	66,000	62,100	43,000	64,700	63,900	75,500	113,000	—	
Thallium	10 µg/l	ND	—	—	ND	—	ND	ND	ND	ND	2	
Vanadium	10 µg/l	440	—	—	211	—	343	316	75.2	57.2	—	
Zinc	20 µg/l	223 ^c	240	—	180 ^c	170	167 ^c	152 ^c	66.2 ^c	133 ^c	5,000 ^a	

Notes:

- (1) Value indicated is less than the Practical Quantitation Limit for that constituent.
- (2) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
- (3) California secondary MCL.
- (4) Reporting Limit = 200 µg/l.
- (5) Reporting Limit = 5 µg/l.
- (6) Reporting Limit = 10 µg/l.
- (7) Duplicate Sample
- (8) Reporting Limit = 100 µg/l
- (9) Estimated value
- (10) Estimated value

ND = Not Detected
 -- = Not Analyzed
 • = No MCL established
 [] = Shaded box indicates detection greater than or equal to the MCL.
 All samples are unfilled unless otherwise specified.

DRAFT

SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER METALS LETTERMAN ARMY MEDICAL CENTER PRESIDIO OF SAN FRANCISCO									
Analytical Method	Well Number		MW-1		MW-6		MW-8		MCL ^a (µg/l)
	Date Sampled	8/15/94	2/8/95	2/8/95	2/8/95	2/7/95	2/7/95		
Laboratory Reporting Limit				(Filtered)					
Aluminum	200 µg/l	71,600	6,700	ND	13,000	19,000			1,000/200 ^b
Antimony	5.0 µg/l	ND ^u	--	--	ND	ND			6
Arsenic	3.0 µg/l	5.8	--	--	ND ^a	ND ^a			50
Barium	20 µg/l	250	--	--	90	140			1,000
Beryllium	1.0 µg/l	2.3	--	--	ND	ND			4
Cadmium	1.0 µg/l	ND	--	--	ND ^a	ND ^a			5
Calcium	2,000 µg/l	55,700	37,000	35,000	72,000	35,000			*
Chromium (total)	10 µg/l	246	78	26	130	120			50
Cobalt	5.0 µg/l	103	--	--	27	31			*
Copper	10.0 µg/l	45.4 ⁱ	18	--	12	11			1,000 ^b
Iron	100 µg/l	209,000	14,000	ND ^a	25,000	34,000			300 ^b
Lead	2.0 µg/l	28.4	--	--	ND ^a	ND ^a			*
Magnesium	2,000 µg/l	72,900	40,000	--	78,000	49,000			*
Manganese	15 µg/l	2,400	170	7 ^a	370	770			50 ^b
Mercury	0.20 µg/l	ND	--	--	ND	ND			2
Nickel	20 µg/l	317	54	ND ^a	100	130			100
Potassium	2,000 µg/l	7,660	1,300 ^a	1,300 ^a	3,900 ^a	1,800 ^a			*
Selenium	3.0 µg/l	4.1	--	--	ND ^a	ND ^a			50
Silver	10 µg/l	ND	--	--	ND ^a	ND ^a			100 ^b
Sodium	500 µg/l	84,500	58,000	66,000	180,000	100,000			--
Thallium	10 µg/l	ND	--	--	ND	ND			2
Vanadium	10 µg/l	440	--	--	71	73			--
Zinc	20 µg/l	223 ^j	240	--	84	85			5,000 ^b

Notes:

- (1) Value indicated is less than the Practical Quantitation Limit for that constituent.
 - (2) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
 - (3) California secondary MCL.
 - (4) Reporting Limit = 200 µg/l.
 - (5) Reporting Limit = 5 µg/l.
 - (6) Reporting Limit = 10 µg/l.
 - (7) Duplicate Sample
 - (8) Reporting Limit = 100 µg/l
 - (9) Estimated value
 - (10) Estimated reporting limit
- ND = Not Detected
 -- = Not Analyzed
 * = No MCL established
 [Shaded boxes] Shaded boxes indicate detection greater than or equal to the MCL.
 All samples are unfiltered unless otherwise specified.

SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER INORGANIC CONSTITUENTS LETTERMAN ARMY INSTITUTE OF RESEARCH PRESIDIO OF SAN FRANCISCO										
Analytical Method	Well Number Date Sampled Laboratory Reporting Unit	MW-1		MW-2		MW-3		MW-4		MCL ⁽¹⁾ (µg/l)
		8/15/94	2/8/95	8/15/94	2/7/95	8/15/94	8/15/94 ⁽²⁾	8/16/94	8/16/94	
Ammonia	100 µg/l	-	ND	-	ND	-	-	-	-	*
Chloride	2,000 µg/l	-	47,000	-	43,000	43,000	-	-	-	250,000-600,000 ⁽³⁾
Cyanide	10 µg/l	26.5	-	54.3	-	26.5	37.1	36.5	37.7	200
Nitrate (as N)	20 µg/l	6,900	-	3,500	-	2,800	2,800	170	5,300	10,000 ⁽⁴⁾
Nitrite (as N)	10 µg/l	ND	-	ND	-	27	27	ND	ND	1,000 ⁽⁵⁾
Sulfate	2,500 µg/l	-	64,000	-	83,000	-	-	-	-	250,000-600,000 ⁽⁶⁾
Total Dissolved Solids	200,000 µg/l	-	420,000	-	500,000	-	-	-	-	500,000-1,500,000 ⁽⁷⁾
Total Suspended Solids	7,000 µg/l	-	390,000	-	97,000	-	-	-	-	*
BOD	5,000 µg/l	-	ND	-	ND	-	-	-	-	*
COD	20,000 µg/l	-	70,000	-	26,000	-	-	-	-	*
Redox	mV	-	-	-	265	-	-	-	-	*
Alkalinity	5,000 µg CaCO ₃ /l	-	230,000	-	300,000	-	-	-	-	*
Conductivity	10 µmhos/cm	-	700	-	800	-	-	-	-	900-2,200 ⁽⁸⁾
Hardness	5,400 µg/l	-	259,000	-	373,000	-	-	-	-	*
pH (laboratory)	-	7.0	7.1	7.1	7.2	7.0	7.0	7.1	7.1	6.5-8.5

Notes:

- (1) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
- (2) MCL for nitrate is 45,000 µg/l as NO₃, equivalent to 10,000 µg/l nitrate as N.
- (3) MCL is for nitrite as N. The MCL for the sum of nitrate and nitrite (both as N) is 10,000 µg/l.
- (4) California secondary MCL.
- (5) Duplicate sample.

ND = Not Detected

-- = Not Analyzed

* = No MCL established

All samples are unfiltered.

Shaded boxes indicate section greater than or equal to the MCL

DRAFT

SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER INORGANIC CONSTITUENTS LETTERMAN ARMY MEDICAL CENTER PRESIDIO OF SAN FRANCISCO											
Analytical Method	Well Number	MW-1	MW-6	MW-7	MW-8	MCL ⁽¹⁾ (µg/l)					
	Date Sampled	8/15/94	2/8/95	2/8/95	2/7/95						
Laboratory Reporting Limit											
Ammonia	100 µg/l	--	ND	--	ND	*					
Chloride	2,000 µg/l	--	47,000	--	66,000	250,000- 600,000 ⁽²⁾					
Cyanide	10 µg/l	26.5	--	ND	ND	200					
Nitrate (as N)	20 µg/l	6,900	--	4,100 ⁽³⁾	5,900 ⁽³⁾	10,000 ⁽³⁾					
Nitrite (as N)	10 µg/l	ND	--	ND ⁽⁴⁾	ND ⁽⁴⁾	1,000 ⁽⁴⁾					
Sulfate	2,500 µg/l	--	64,000	--	72,000	250,000- 600,000 ⁽⁵⁾					
Total Dissolved Solids	200,000 µg/l	--	420,000	--	490,000	500,000- 1,500,000 ⁽⁶⁾					
Total Suspended Solids	7,000 µg/l	--	390,000	--	340,000	*					
BOD	5,000 µg/l	--	ND	--	ND	*					
COD	20,000 µg/l	--	70,000	--	70,000	*					
Redox	mV	--	--	--	246	*					
Alkalinity	5,000 µg CaCO ₃ /l	--	230,000	--	270,000	*					
Conductivity	10 µmhos/cm	--	700	--	830	900-2,200 ⁽⁷⁾					
Hardness	5,400 µg/l	--	259,000	--	288,000	*					
pH (laboratory)	--	7.0	7.1	7.4	7.0	6.5-8.5					

Notes:

- (1) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
 (2) MCL for nitrate is 45,000 µg/l as NO₃, equivalent to 10,000 µg/l nitrate as N.
 (3) MCL is for nitrite as N. The MCL for the sum of nitrate and nitrite (both as N) is 10,000 µg/l.
 (4) California secondary MCL.
 (5) Nitrate concentrations reported by D&M Laboratories as NO₃, converted to nitrate as N for comparison with data from Lockheed Analytical Services data for well MW-1.
 (6) Nitrite detection limit is approximately 900 µg/l (as N).
 (7) Nitrite detection limit is approximately 460 µg/l (as N).
 (8) Duplicate sample.

ND = Not Detected

-- = Not Analyzed

* = No MCL established

All samples are unfiltered.

Shaded boxes indicate detection greater than or equal to the MCL.

SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER
ORGANIC CONSTITUENTS
LETTERMAN ARMY INSTITUTE OF RESEARCH
PRESIDIO OF SAN FRANCISCO

Analytical Method	Well Number	MW-1		MW-2		MW-3		MW-4		MW-5		MCL (µg/l)
		8/15/94	2/8/95	8/15/94	2/7/95	8/15/94	8/15/94 ^a	2/7/95	8/16/94	8/16/94		
Laboratory Reporting Limit												
Volatile Organic Compounds												
Chloroform	5.0 µg/l	ND	--	ND	--	13	12	ND	ND	ND	ND	100
Semi-Volatile Organic Compounds												
bis(2-ethoxyethyl) phthalate	10 µg/l	7.7 ^a	ND ^a	11	ND ^a	810 ^a	ND ^a	4.2 ^a	ND	ND	ND	4
diethylphthalate	10 µg/l	ND	ND ^a	8.3 ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND	ND	ND	•
caprolactam	4.0 µg/l	ND	300 ^a	ND	31 ^a	ND	ND	47 ^a	ND	ND	ND	•
unknown organic compound	4.0 µg/l	ND	28 ^a	ND	ND	ND	ND	ND	ND	ND	ND	•
benzenesulfonic acid, 4-methyl-, ethyl ester	4.0 µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	•
Organochlorine Pesticides/PCBs	0.050-5.0 µg/l	ND ^a	--	ND ^a	--	ND ^a	ND ^a	--	ND ^a	ND ^a	ND ^a	•
Total Volatile Hydrocarbons	100 µg/l	ND	--	ND	--	ND	ND	--	ND	ND	ND	•
Total Extractable Hydrocarbons	1,000 µg/l	ND	--	ND	--	ND	ND	--	ND	ND	ND	•

Notes:

- (1) Value indicated is less than the Practical Quantitation Limit for that constituent.
- (2) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
- (3) Reporting Limit = 4 µg/l.
- (4) Duplicate Sample.

- 1 Estimated value
- u Estimated reporting limit
- a Rejected and unusable because of analytical failure

ND = Not Detected
 -- = Not Analyzed
 • = No MCL established
 [] Shaded boxes indicate detection greater than or equal to the MCL.
 All samples are unfiltered.

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SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER ORGANIC CONSTITUENTS LETTERMAN ARMY MEDICAL CENTER PRESIDIO OF SAN FRANCISCO							
	Well Number	MW-1	MW-6	MW-8	MCL (µg/l)		
	Date Sampled	8/15/94	2/8/95	2/7/95			
Analytical Method	Laboratory Reporting Limit						
Volatile Organic Compounds							
Chloroform	5.0 µg/l	ND	--	ND	100		
Semi-Volatile Organic Compounds							
bis(2-ethylhexyl) phthalate	10 µg/l	7.7 ^u	ND ^o	ND ^o	4		
diethylphthalate	10 µg/l	ND	ND ^o	ND ^o	*		
caprolactam	4.0 µg/l	ND	300 ^o	170 ^o	230 ^o		
unknown organic compound	4.0 µg/l	ND	28 ^o	19 ^o	19 ^o		
benzenesulfonic acid, 4-methyl, -ethyl ester	4.0 µg/l	ND	ND	ND	47 ^o		
Organochlorine Pesticides/PCBs	0.050-5.0 µg/l	ND ^u	--	ND	ND		
Total Volatile Hydrocarbons	100 µg/l	ND	--	ND ^o	ND ^o		
Total Extractable Hydrocarbons	1,000 µg/l	ND	--	ND ^o	ND ^o		

Notes:

- (1) Value indicated is less than the Practical Quantitation Limit for that constituent.
 (2) California primary Maximum Contaminant Level for drinking water supplies unless otherwise noted.
 (3) Reporting Limit = 4 µg/l.
 (4) Reporting Limit = 50 to 500 µg/l.
- J Estimated value
 u Estimated reporting limit
 o Rejected and unusable because of analytical failure
- ND = Not Detected
 -- = Not Analyzed
 * = No MCL established
 Shaded boxes indicate detection greater than or equal to the MCL.
 All samples are unfiltered.

**SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER
RADIONUCLIDE CONSTITUENTS
LETTERMAN ARMY INSTITUTE OF RESEARCH
PRESIDIO OF SAN FRANCISCO**

Analytical Method	Well Number	MW-1		MW-2		MW-3		MW-4	MW-5	MCL ¹⁰ (pCi/l)
	Date Sampled	8/15/94	2/8/95	8/15/94	8/15/94	8/15/94	8/15/94 ¹⁰	8/16/94	8/16/94	
	Minimum Detectable Activity									
Gross Alpha	8.8-25.0 pCi/l	46.0 ± 23.0	1.5 ± 3.8	7.2 ± 7.7	17.0 ± 15.0	33.0 ± 19.0	7.5 ± 6.3	13.5 ± 9.2	15	
Gross Beta	8.1-19.0 pCi/l	36.0 ± 13.0	5.1 ± 3.5	17.7 ± 7.2	32.0 ± 13.0	40.0 ± 13.0	13.1 ± 5.4	21.9 ± 8.3	50	
Gamma Scan										
Ac-228	190-280 pCi/l	-90 ± 9.6	-	50 ± 150	-30 ± 140	-30 ± 150	-20 ± 150	-11 ± 97	•	
Bi-212	250-530 pCi/l	-90 ± 100	-	-160 ± 140	290 ± 350	10 ± 320	-80 ± 190	0 ± 180	•	
Bi-214	96-150 pCi/l	66 ± 69	-	-25 ± 90	50 ± 100	72 ± 95	-10 ± 80	5 ± 61	•	
Co-60	35-65 pCi/l	16 ± 22	-	-9 ± 28	-8 ± 27	-1 ± 23	9 ± 26	-2 ± 15	•	
Cs-137	35-70 pCi/l	22 ± 34	-	-13 ± 45	12 ± 45	2 ± 38	4 ± 41	0 ± 23	•	
K-40	510-860 pCi/l	230 ± 360	-	20 ± 510	-260 ± 430	36 ± 430	50 ± 520	100 ± 370	•	
Pb-210	1,900-11,000 pCi/l	100 ± 1,300	-	-500 ± 2,700	-900 ± 2,800	410 ± 1,400	-2,100 ± 2,600	-1,000 ± 7,700	•	
Pb-212	72-100 pCi/l	16 ± 57	-	13 ± 64	-26 ± 67	45 ± 67	-29 ± 61	-4 ± 47	•	
Pb-214	93-130 pCi/l	11 ± 62	-	14 ± 67	12 ± 76	-15 ± 74	-8 ± 69	19 ± 54	•	
Re-226 (Gamma)	710-1,100 pCi/l	280 ± 630	-	260 ± 760	-190 ± 760	430 ± 770	-110 ± 700	-420 ± 470	•	
Th-234	710-900 pCi/l	-180 ± 320	-	170 ± 370	-170 ± 380	220 ± 370	160 ± 380	-170 ± 300	•	
Tl-208	52-77 pCi/l	-24 ± 47	-	-7 ± 49	28 ± 56	44 ± 56	3 ± 53	7 ± 34	•	
U-235 (Gamma)	180-260 pCi/l	20 ± 140	-	-60 ± 130	20 ± 170	-190 ± 130	-52 ± 90	30 ± 130	20	

Notes:

- (1) California primary Maximum Contaminant Level for drinking water -- = Not Analyzed
supplies unless otherwise noted. * = No MCL established.
- (2) Duplicate sample
- Shaded box indicates detection greater than MCL.
All samples are unfiltered unless otherwise specified.

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SUMMARY OF CHEMICAL ANALYSIS RESULTS FOR GROUNDWATER RADIONUCLIDE CONSTITUENTS LETTERMAN ARMY MEDICAL CENTER PRESIDIO OF SAN FRANCISCO						
Analytical Method	Well Number		MW-1		MW-6	
	Date Sampled	8/15/94	2/8/95	2/8/95	2/7/95	MCL ⁽¹⁾ (pCi/l)
	Minimum Detectable Activity					
Gross Alpha	8.8-25.0 pCi/l	46.0 ± 23.0	1.5 ± 3.8	5.5 ± 6.6	7.6 ± 6.1	15
Gross Beta	8.1-19.0 pCi/l	36.0 ± 13.0	5.1 ± 3.5	1.3 ± 6.3	9.2 ± 4.4	50
Gamma Scan						
Ac-228	190-280 pCi/l	-90 ± 9.6	--	-1.8 ± 6.9	-3.6 ± 7.6	•
Bi-212	250-530 pCi/l	-90 ± 100	--	-9.5 ± 8.9 ^a	11 ± 16 ^{pl}	•
Bi-214	96-150 pCi/l	66 ± 69	--	4.9 ± 5.6 ^{pl}	4.7 ± 5.5 ^{pl}	•
Co-60	35-65 pCi/l	16 ± 22	--	-0.1 ± 2.0	1.2 ± 1.2	•
Cs-137	35-70 pCi/l	22 ± 34	--	0.1 ± 2.5	0.9 ± 2.3 ^{pl}	•
K-40	510-860 pCi/l	230 ± 360	--	-32 ± 14 ^a	17 ± 29 ^{pl}	•
Pb-210	1,900-11,000 pCi/l	100 ± 1,300	--	-30 ± 280	40 ± 280 ^{pl}	•
Pb-212	72-100 pCi/l	16 ± 57	--	2.0 ± 5.2 ^{pl}	1.9 ± 5.4 ^{pl}	•
Pb-214	93-130 pCi/l	11 ± 62	--	5.7 ± 4.9	6.0 ± 5.1	•
Ra-226 (Gamma)	710-1,100 pCi/l	280 ± 630	--	-123 ± 55 ^a	-33 ± 57	•
Th-234	710-900 pCi/l	-180 ± 320	--	29 ± 48	-30 ± 44	•
Tl-208	52-77 pCi/l	-24 ± 47	--	0.7 ± 2.9	0.0 ± 2.9	•
U-235 (Gamma)	180-260 pCi/l	20 ± 140	--	2 ± 15	1 ± 15	20

Notes:

- (1) California primary Maximum Contaminant Level for drinking water -- = Not Analyzed
supplies unless otherwise noted.
- (2) Duplicate sample

* = No MCL established

Shaded box indicates detection greater than MCL.
All samples are unfiltered unless otherwise specified.

^a Data rejected and unusable because of analytical failure

^{pl} Data valid, however, detection limits were exceeded

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Appendix A
Summary Statistics and Box-and-Whisker Plots for
Background Soil Samples

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Table A-4-1 Summary Statistics for Beach-Dune Background Metals

Analyte	Number of Samples	Frequency of Detection ^a (%)	Min	Max	Mean	Standard Deviation	Shapiro-Wilks (sig.)	LN Mean	LN Std. Dev	Shapiro-Wilks (sig.)	Distribution	95th Percentile ^a	Units
Aluminum	14	100	3030	7660	5160	1350	0.5933	8.516	0.269	0.6411	normal	7380	mg/kg
Antimony	4	0	9.8	20.7	12.5	5.43	b	2.469	0.373	b	—	—	mg/kg
Arsenic	14	71.4	1.25	5.43	2.46	1.29	0.0468	0.781	0.497	0.2469	log	4.95	mg/kg
Barium	14	100	8.12	22.8	14	4.21	0.0941	2.601	0.283	0.5856	log	21.5	mg/kg
Beryllium	14	85.7	0.134	0.7	0.261	0.177	<0.01	-1.481	0.481	<0.01	np	0.552	mg/kg
Cadmium	14	0	0.258	0.6	0.433	0.098	<0.01	-0.861	0.223	<0.01	—	—	mg/kg
Calcium	14	100	1750	7020	4100	1630	0.5913	8.240	0.426	0.6040	normal	6780	mg/kg
Chromium	14	100	17.9	81.1	46.3	20	0.7200	3.736	0.477	0.6049	normal	79.2	mg/kg
Cobalt	14	100	3.99	8.47	6.51	1.36	0.4255	1.851	0.223	0.2743	normal	8.75	mg/kg
Copper	14	100	4.6	57.3	20.5	15.9	0.0458	2.736	0.812	0.5589	log	58.7	mg/kg
Cyanide	14	0	0.125	0.46	0.149	0.09	<0.01	-1.986	0.348	<0.01	—	—	mg/kg
Iron	14	100	6030	27000	13700	6140	0.3850	9.432	0.446	0.9212	normal	23800	mg/kg
Lead	14	85.7	1.59	11.8	3.64	2.52	<0.01	1.155	0.495	0.1227	log	7.17	mg/kg
Magnesium	14	100	1520	4040	2590	804	0.3093	7.816	0.303	0.7240	normal	3910	mg/kg
Manganese	14	100	91.5	248	164	46.1	0.8012	5.061	0.297	0.5751	normal	240	mg/kg
Mercury	14	0	0.014	0.03	0.027	0.004	<0.01	-3.615	0.211	<0.01	—	—	mg/kg
Nickel	14	100	15	30.1	22.3	4.15	0.6494	3.089	0.197	0.3086	normal	29.1	mg/kg
Potassium	14	100	137	684	391	128	0.4423	5.912	0.369	0.0800	normal	602	mg/kg
Selenium	14	0	0.125	0.225	0.206	0.024	<0.01	-1.590	0.144	<0.01	—	—	mg/kg
Silver	10	0	0.25	0.402	0.297	0.073	<0.01	-1.240	0.226	<0.01	—	—	mg/kg
Sodium	14	100	48.3	190	116	41.9	0.5742	4.691	0.392	0.4477	normal	185	mg/kg
Thallium	14	0	0.081	17.2	4.26	7.25	<0.01	-1.044	2.420	<0.01	—	—	mg/kg
Vanadium	14	100	15.7	85.4	38.7	21.1	0.1977	3.519	0.545	0.4936	normal	73.4	mg/kg
Zinc	14	100	16.2	40.3	25.5	7.08	0.5088	3.203	0.273	0.8384	normal	37.1	mg/kg

Summary statistics calculated with 1/2 DL for non-detects.

a. Frequency of detection is calculated from all accepted valid data except equipment rinsates.

b. Not enough samples available to perform test.

c. The normal distribution equation was used for nonparametric distributions.

"—" Not applicable because greater than 20% of data were non-detects.

np nonparametric

Table A-4-2 Summary Statistics for Colma Background Metals

Analyte	Frequency of		Min	Max	Mean	Standard Deviation	Shapiro- Wilks			LN Mean	LN		Distribution	95th Percentile*	Units
	Number of Samples	Detection ^a (%)					(sig.)	Dev	(sig.)		Std. Dev	Dev			
Aluminum	8	100	8910	25900	13500	5640	0.307	5640	0.307	9.446	0.357	0.2641	log	22800	mg/kg
Antimony	2	0	20.7	20.7	20.7	0	b	0	b	3.028	0	b	—	—	mg/kg
Arsenic	8	25	1.25	5	1.97	1.41	<0.01	1.41	<0.01	0.517	0.555	<0.01	np	4.29	mg/kg
Barium	8	100	26.9	121	63.9	33.8	0.3782	33.8	0.3782	4.036	0.529	0.7765	normal	120	mg/kg
Beryllium	8	75	0.248	0.681	0.33	0.152	<0.01	0.152	<0.01	-1.175	0.362	<0.01	np	0.58	mg/kg
Cadmium	8	0	0.258	0.4	0.364	0.066	<0.01	0.066	<0.01	-1.026	0.204	<0.01	—	—	mg/kg
Calcium	8	100	1790	3680	3030	617	0.1522	617	0.1522	7.995	0.236	0.0401	normal	4040	mg/kg
Chromium	8	100	51.8	943	184	307	<0.01	307	<0.01	4.626	0.921	<0.01	np	689	mg/kg
Cobalt	8	100	10.9	17	13	1.91	0.2352	1.91	0.2352	2.553	0.139	0.4328	normal	16.1	mg/kg
Copper	8	100	10.4	80.8	27.3	23.7	<0.01	23.7	<0.01	3.070	0.676	0.2824	log	65.5	mg/kg
Cyanide	8	0	0.125	0.46	0.209	0.155	<0.01	0.155	<0.01	-1.754	0.155	<0.01	—	—	mg/kg
Iron	8	100	14700	31200	21300	6510	0.2147	6510	0.2147	9.927	0.297	0.3181	normal	32000	mg/kg
Lead	8	100	3.04	5.82	4.39	1.02	0.6873	1.02	0.6873	1.456	0.235	0.7486	normal	6.07	mg/kg
Magnesium	8	100	3470	4230	3940	287	0.2046	287	0.2046	8.276	0.075	0.1492	normal	4410	mg/kg
Manganese	8	100	227	390	270	54.4	0.0341	54.4	0.0341	5.585	0.182	0.0907	log (np)	359	mg/kg
Mercury	8	0	0.014	0.0897	0.035	0.023	<0.01	0.023	<0.01	-3.476	0.512	<0.01	—	—	mg/kg
Nickel	8	100	34.6	97.5	65.6	22.6	0.8007	22.6	0.8007	4.126	0.376	0.5417	np	103	mg/kg
Potassium	8	100	320	726	432	132	0.0315	132	0.0315	6.033	0.267	0.1989	log	647	mg/kg
Selenium	8	25	0.208	0.832	0.341	0.222	<0.01	0.222	<0.01	-1.217	0.53	<0.01	np	0.706	mg/kg
Silver	8	0	0.25	0.261	0.253	0.005	<0.01	0.005	<0.01	-1.376	0.019	<0.01	—	—	mg/kg
Sodium	8	100	123	340	239	75.8	0.7235	75.8	0.7235	5.424	0.353	0.4768	normal	364	mg/kg
Thallium	7	0	0.081	7.35	1.12	2.75	<0.01	2.75	<0.01	-1.869	1.704	<0.01	—	—	mg/kg
Vanadium	8	100	37.2	64.9	51.2	11	0.2689	11	0.2689	3.915	0.217	0.2940	normal	69.3	mg/kg
Zinc	8	100	29.1	64.8	42.9	13.9	0.2433	13.9	0.2433	3.716	0.311	0.4013	normal	65.8	mg/kg

Summary statistics calculated with 1/2 DL for non-detects.

a. Frequency of detection is calculated from all accepted valid data except equipment rinsates.

b. Not enough samples available to test.

c. The normal distribution equation was used for nonparametric distributions.

"—" Not applicable because greater than 20% of data were non-detects.

np nonparametric

Table A-4-3 Summary Statistics for Serp Background Metals

Analyte	Number of Samples	Frequency of Detection ^a (%)	Min	Max	Mean	Standard Deviation	Shapiro-Wilks		LN Mean	LN Std. Dev	Distribution	95th Percentile ^c	Units
							(sig.)	(sig.)					
Aluminum	6	100	2530	8660	5190	2470	0.3489	0.4773	8.459	0.482	normal	9250	mg/kg
Antimony	2	0	9.8	20.7	15.2	7.67	b	b	2.655	0.527	—	—	mg/kg
Arsenic	6	66.7	0.125	2.49	0.997	0.876	0.3843	0.7261	-0.417	1.094	normal	2.44	mg/kg
Barium	6	83.3	1.65	92.3	32.9	36.3	0.1278	0.6942	2.770	1.498	normal	92.6	mg/kg
Beryllium	6	0	0.05	5	1.84	2.46	<0.01	0.3361	-0.567	1.845	—	—	mg/kg
Cadmium	6	0	0.258	400	14.2	20	<0.01	0.1010	0.997	2.286	—	—	mg/kg
Calcium	6	100	368	9200	2280	3420	<0.01	0.3923	7.058	1.157	log	7800	mg/kg
Chromium	6	100	674	1290	914	226	0.5671	0.8338	6.794	0.237	normal	1290	mg/kg
Cobalt	6	100	59.8	140	101	33.2	0.4156	0.4558	4.565	0.345	normal	156	mg/kg
Copper	6	100	5.08	64.6	32.5	24.1	0.3931	0.4249	3.151	0.986	normal	72.1	mg/kg
Cyanide	6	0	0.125	0.46	0.181	0.137	<0.01	<0.01	-1.862	0.532	—	—	mg/kg
Iron	6	100	36000	80700	59600	15800	0.8074	0.6311	10.964	0.283	normal	85600	mg/kg
Lead	4	75	1.82	4.48	3.51	1.17	b	b	1.200	0.408	—	—	mg/kg
Magnesium	6	100	15300	270000	140000	86300	>0.99	0.1578	11.558	1.013	normal	282000	mg/kg
Manganese	6	100	505	2090	899	596	<0.01	0.0900	6.671	0.513	np	1880	mg/kg
Mercury	6	25	0.014	0.03	0.026	0.006	<0.01	<0.01	-3.681	0.313	np	0.0359	mg/kg
Nickel	6	100	1120	3950	2570	1070	0.6011	0.6064	7.769	0.462	np	4330	mg/kg
Potassium	6	16.7	25	2500	576	963	<0.01	0.6560	5.192	1.699	—	—	mg/kg
Selenium	6	0	0.125	0.225	0.197	0.036	<0.01	<0.01	-1.642	0.216	—	—	mg/kg
Silver	5	20	0.25	1.67	0.581	0.613	<0.01	0.0547	-0.852	0.787	np	1.59	mg/kg
Sodium	6	83.3	19.4	450	208	174	0.3850	0.4960	4.904	1.170	normal	494	mg/kg
Thallium	6	0	0.081	17.2	4.14	7.01	<0.01	<0.01	-0.869	2.561	—	—	mg/kg
Vanadium	6	100	11.8	40.2	29.5	10.1	0.4463	0.0815	3.317	0.444	normal	46.1	mg/kg
Zinc	6	100	6.64	95	38.9	32.1	0.4052	0.9032	3.338	0.937	normal	91.7	mg/kg

Summary statistics calculated with 1/2 DL for non-detects.

a. Frequency of detection is calculated from all accepted valid data except equipment rinsates.

b. Not enough samples available to test.

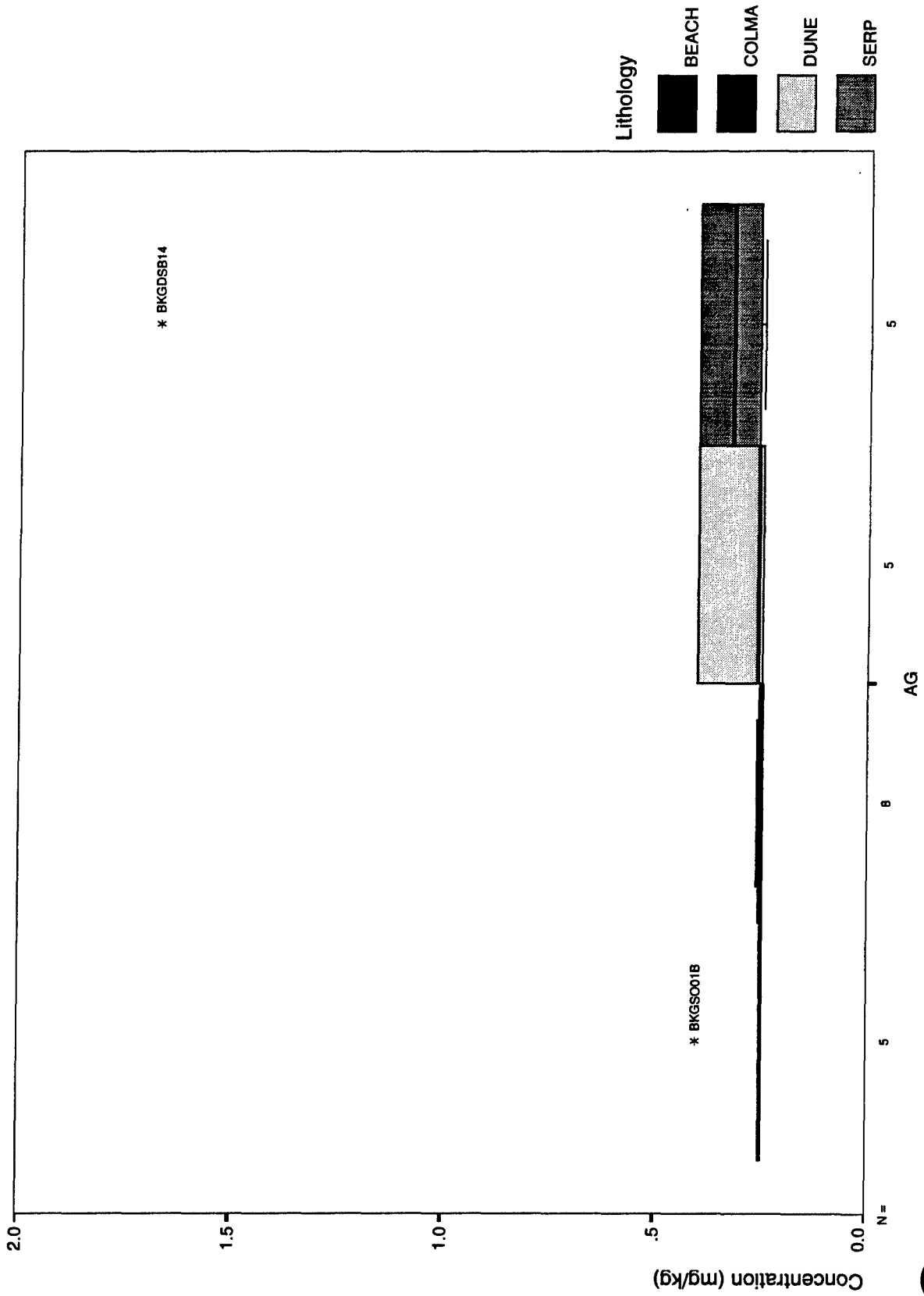
c. The normal distribution equation was used for nonparametric distributions.

"—" Not applicable because greater than 20% of data were non-detects.

np nonparametric

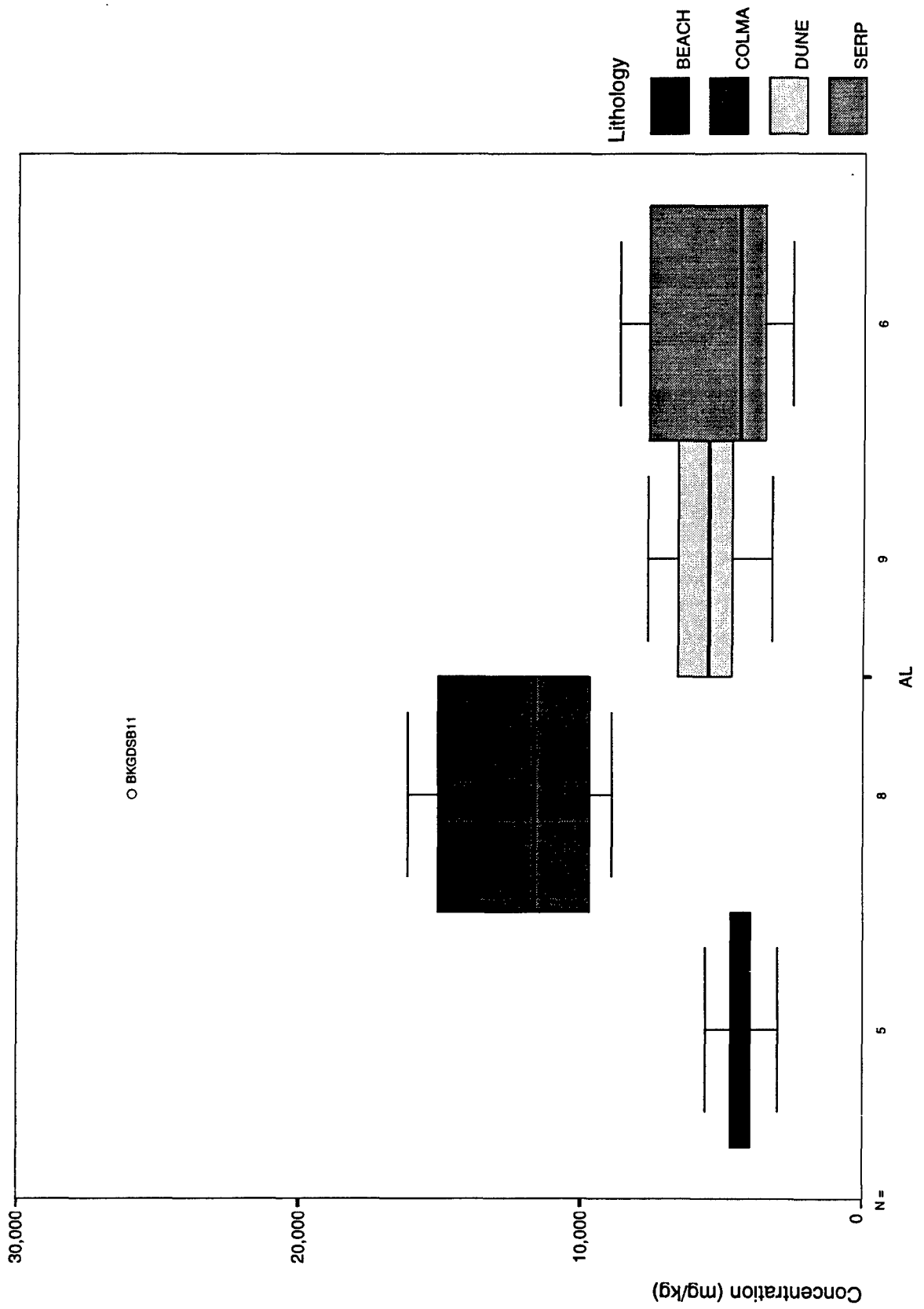
Presidio Background Soils

Silver



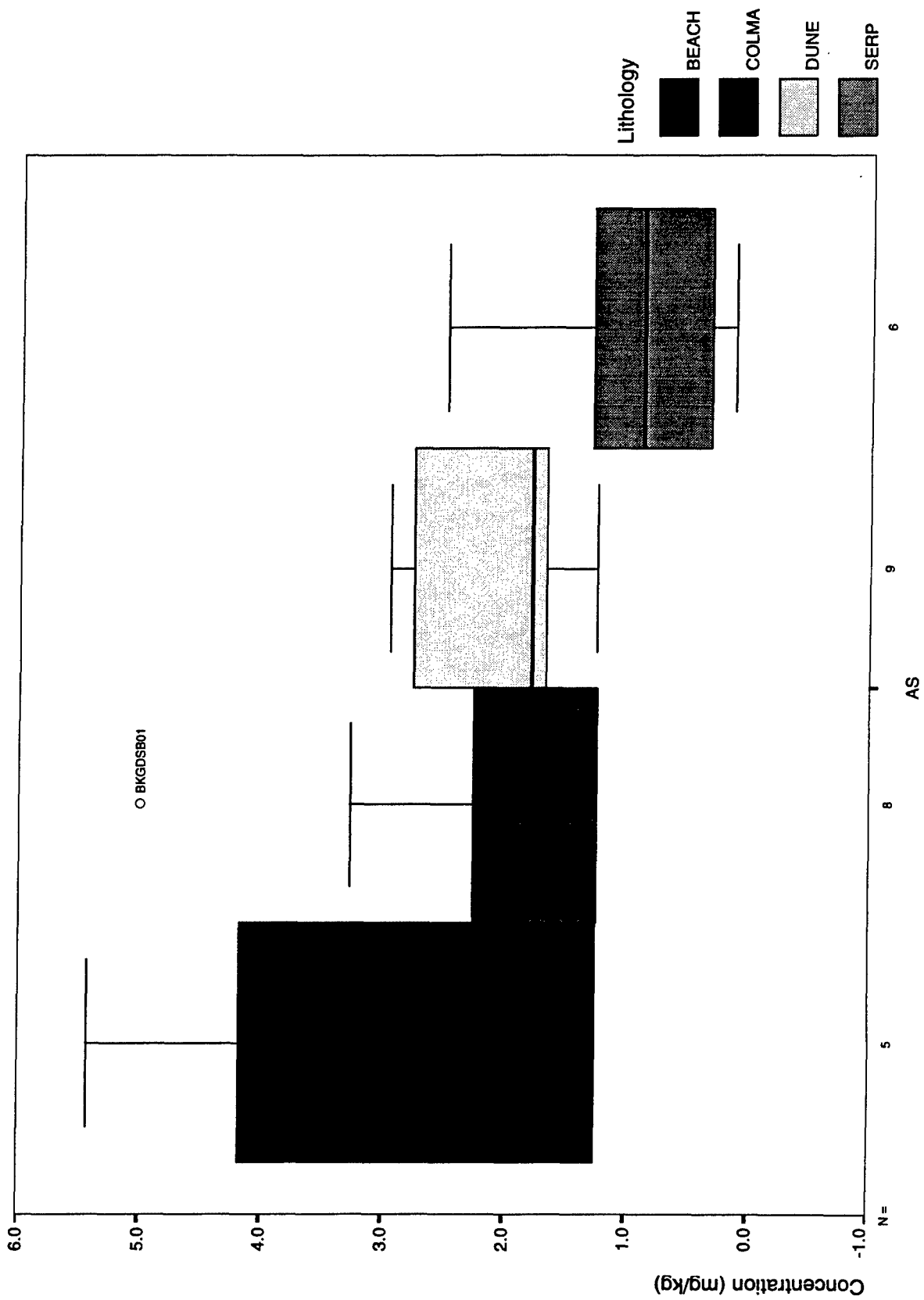
Presidio Background Soils

Aluminum



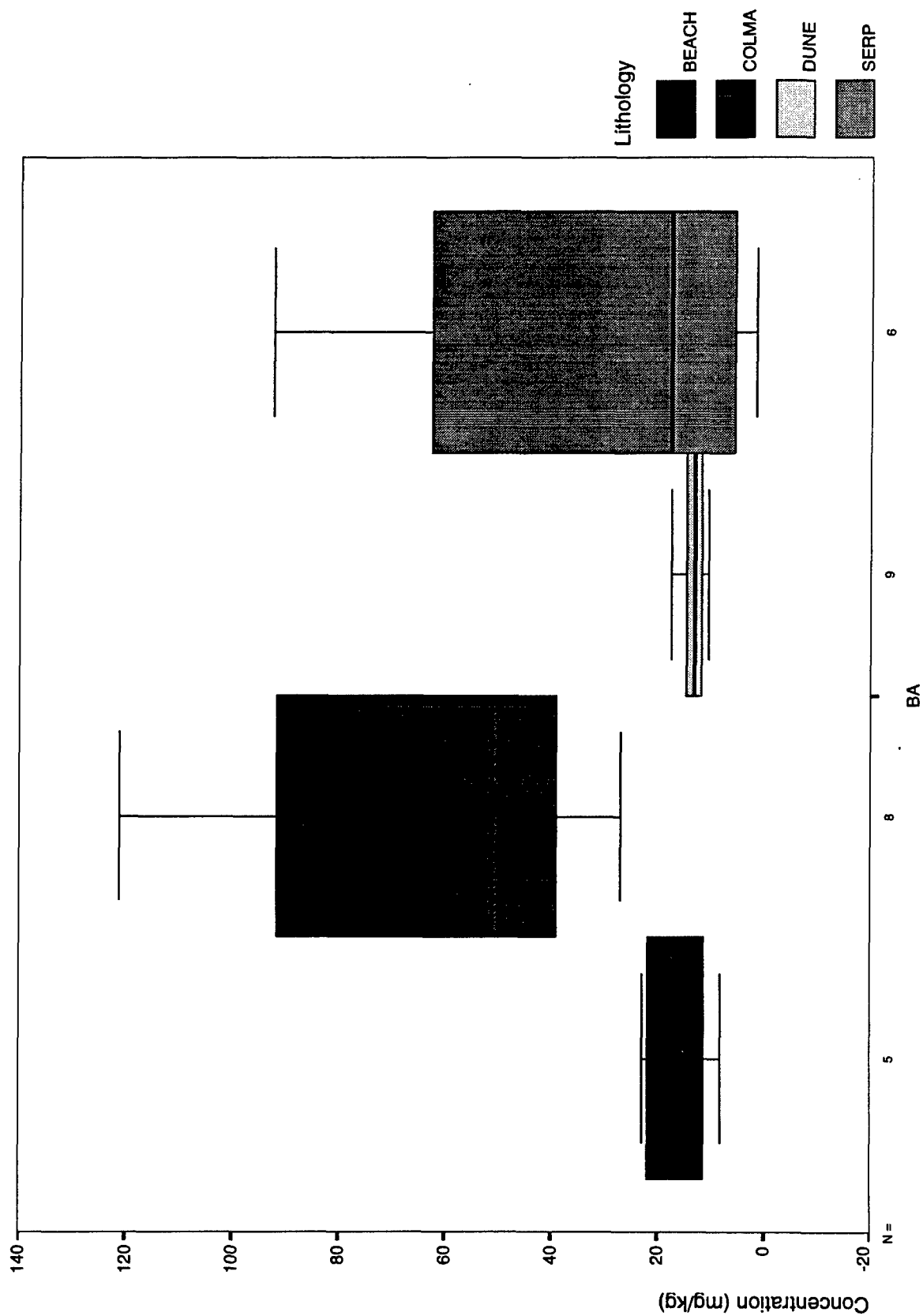
Presidio Background Soils

Arsenic



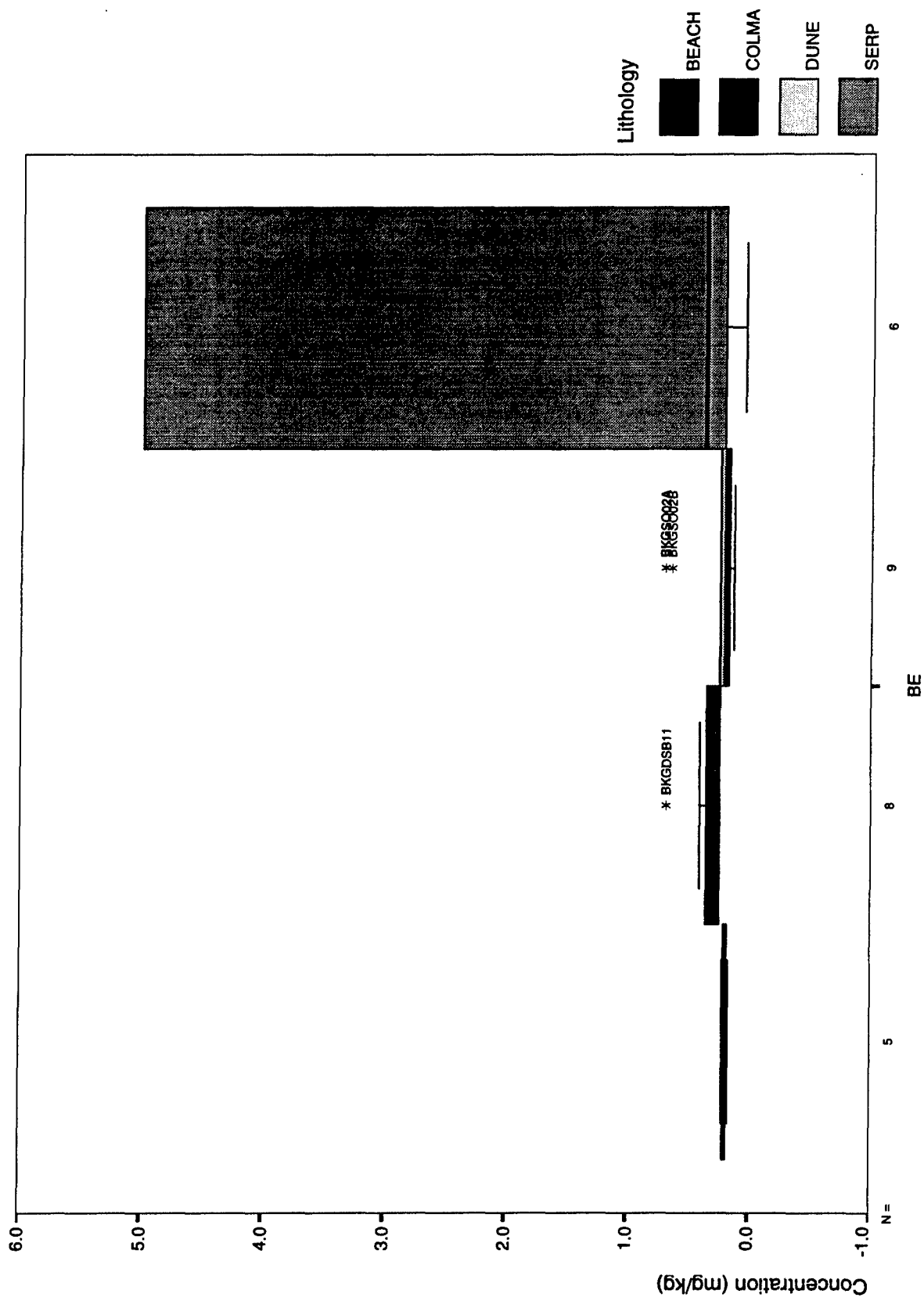
Presidio Background Soils

Barium



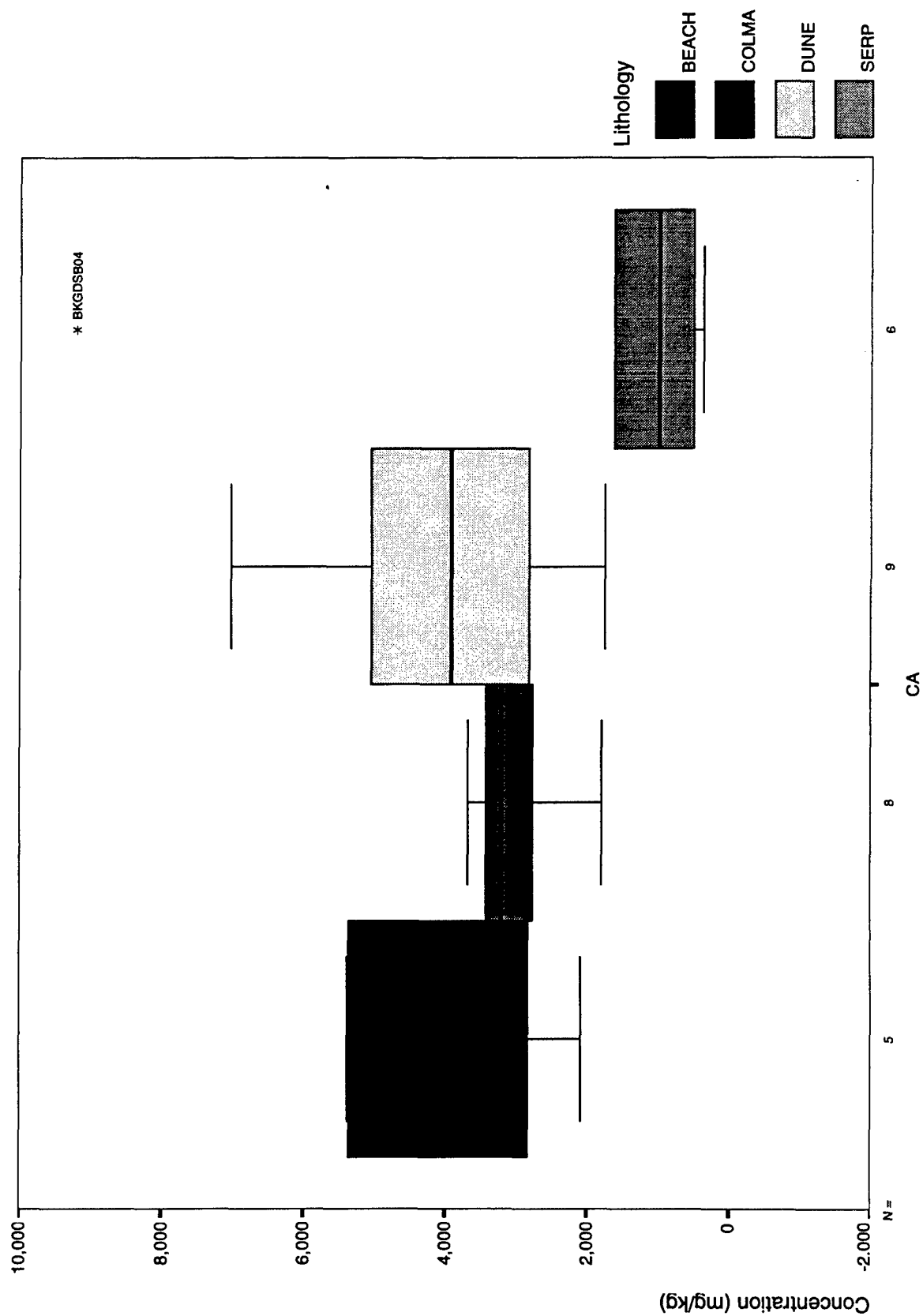
Presidio Background Soils

Beryllium



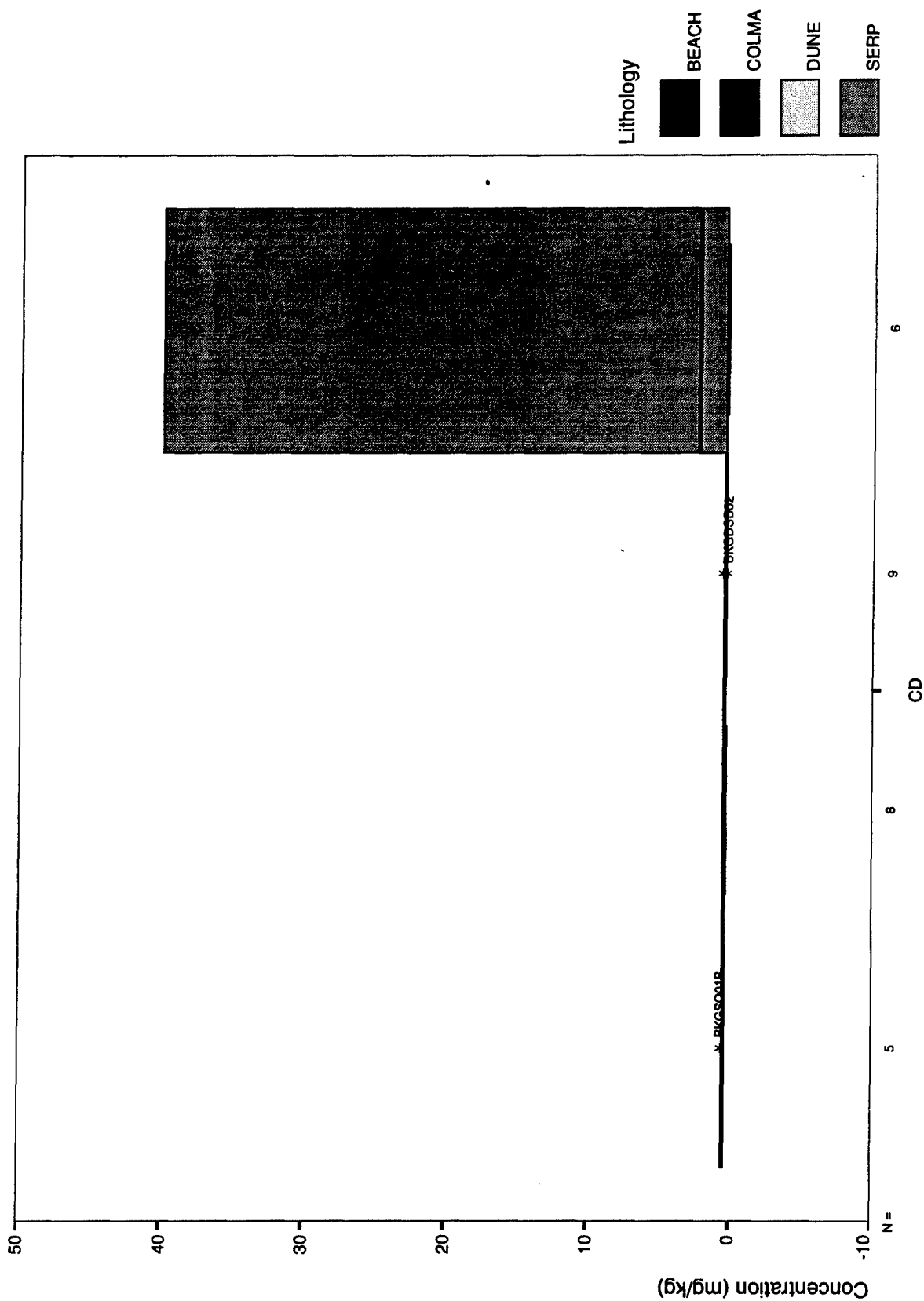
Presidio Background Soils

Calcium



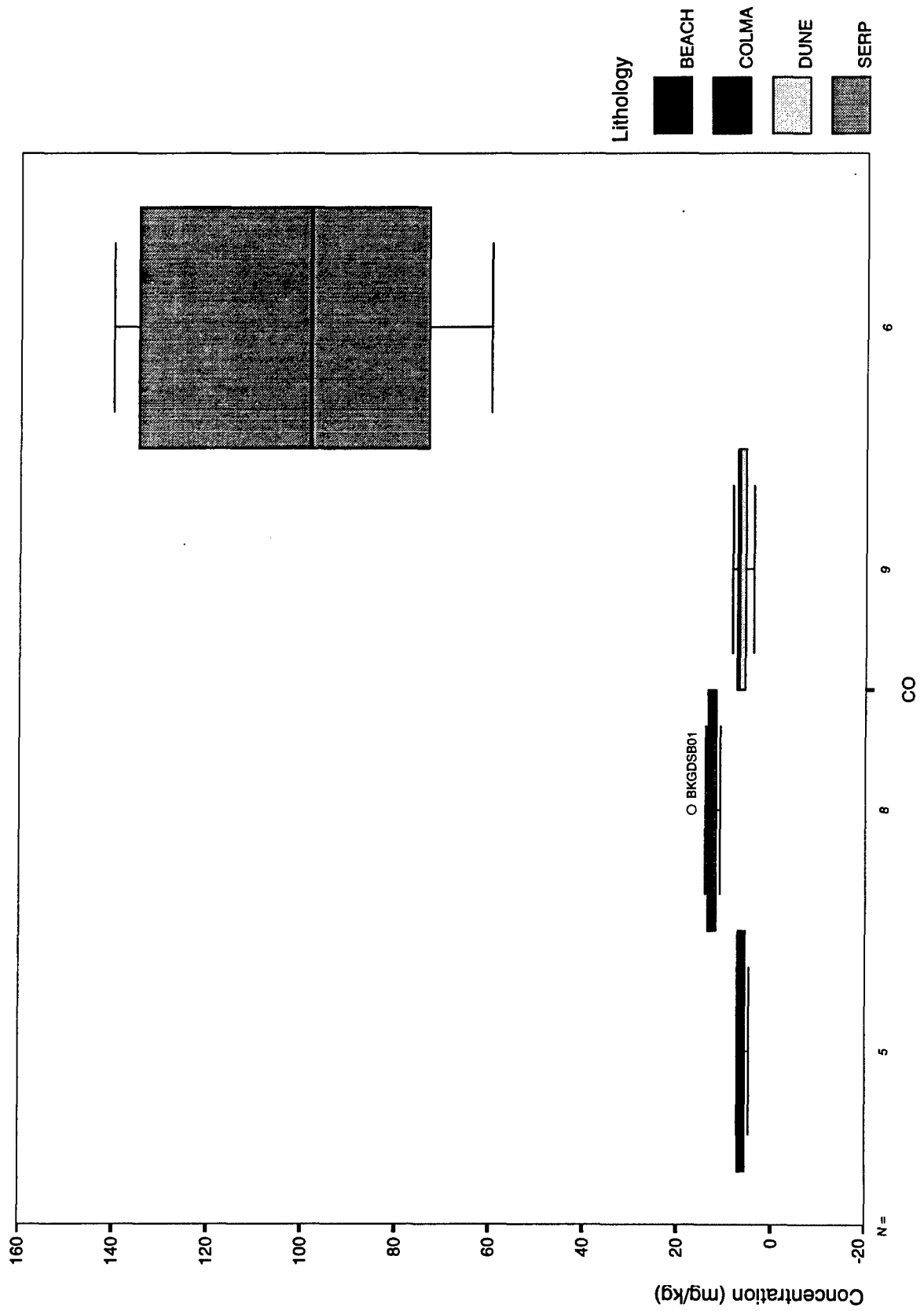
Presidio Background Soils

Cadmium



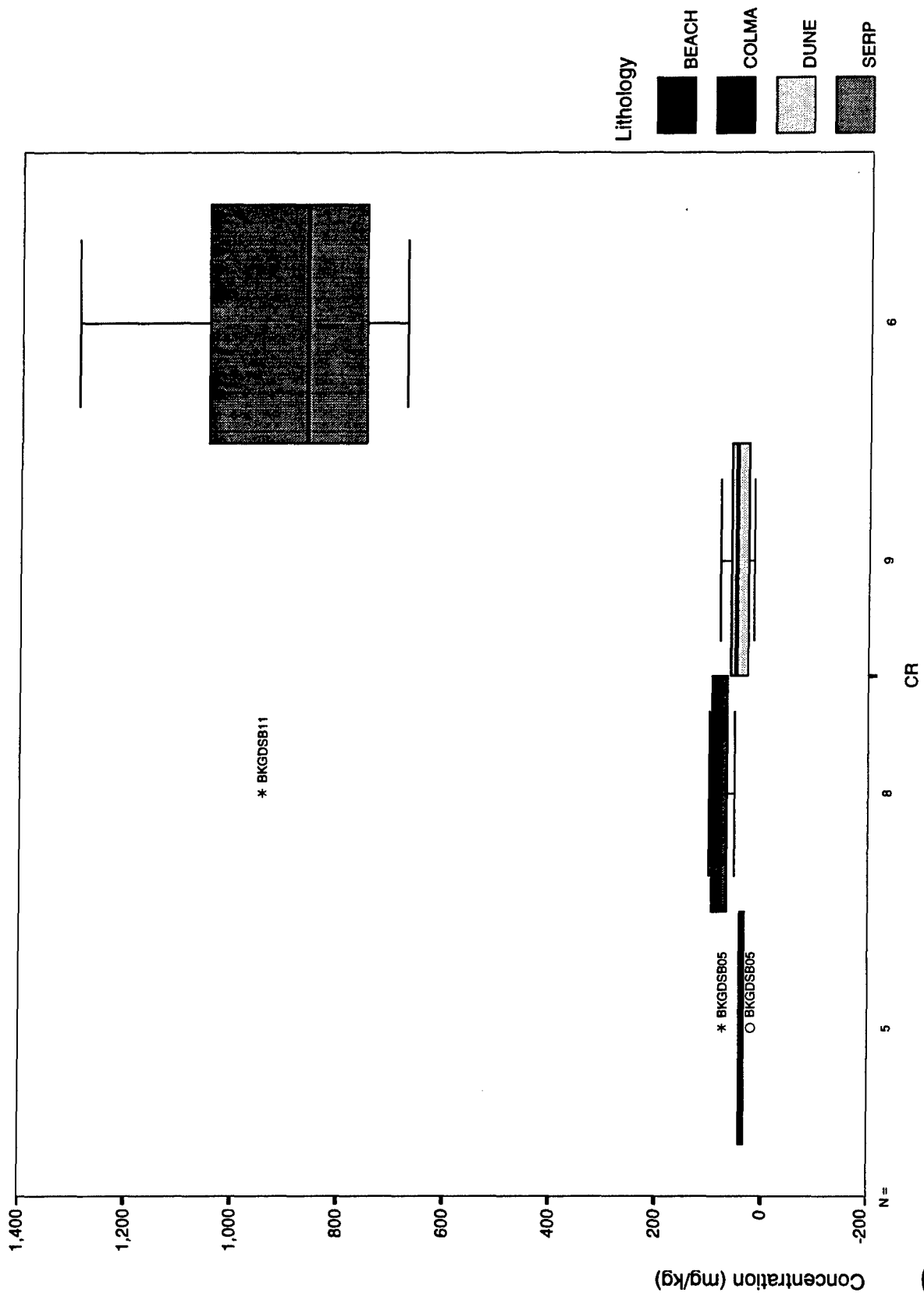
Presidio Background Soils

Cobalt



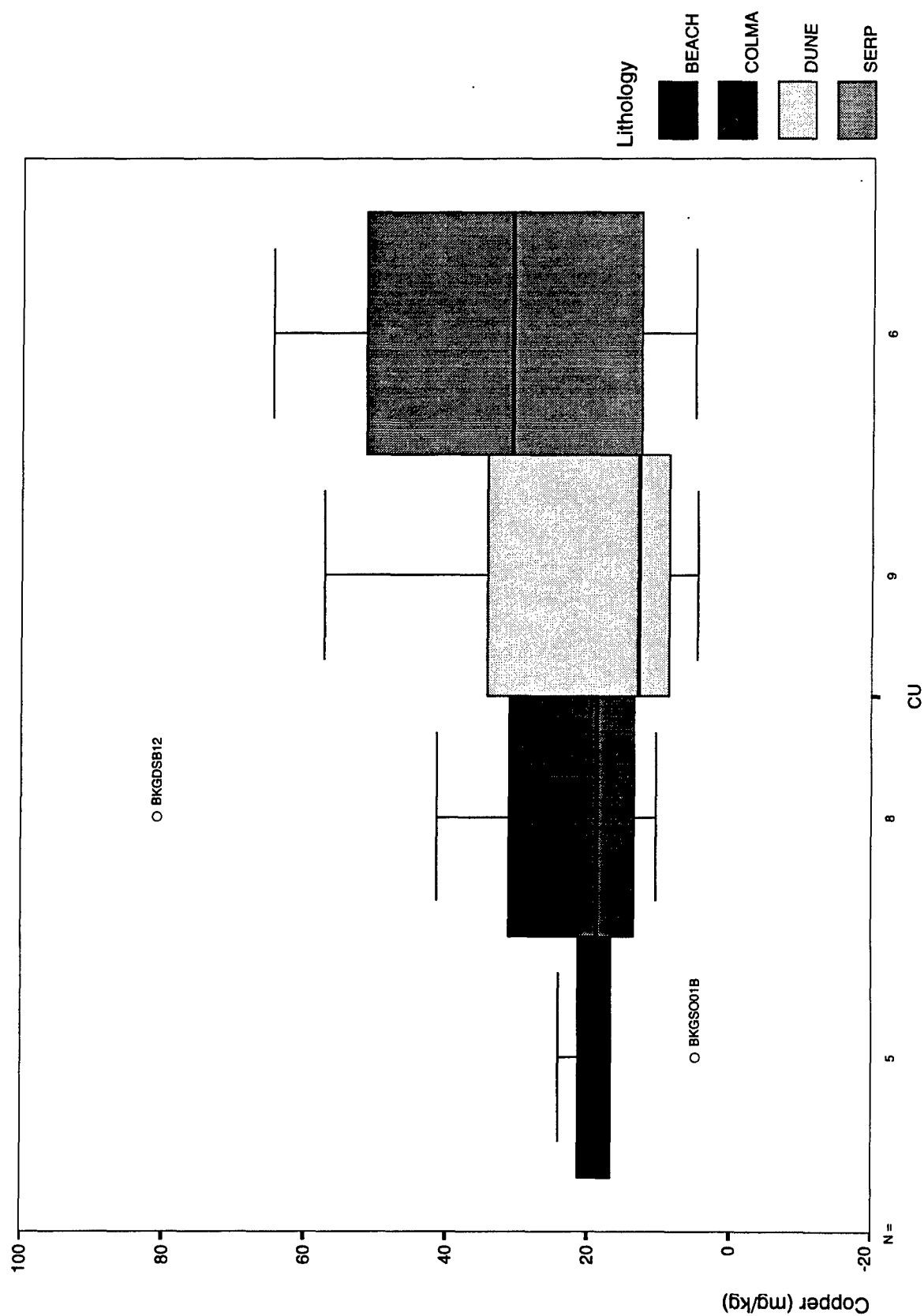
Presidio Background Soils

Chromium



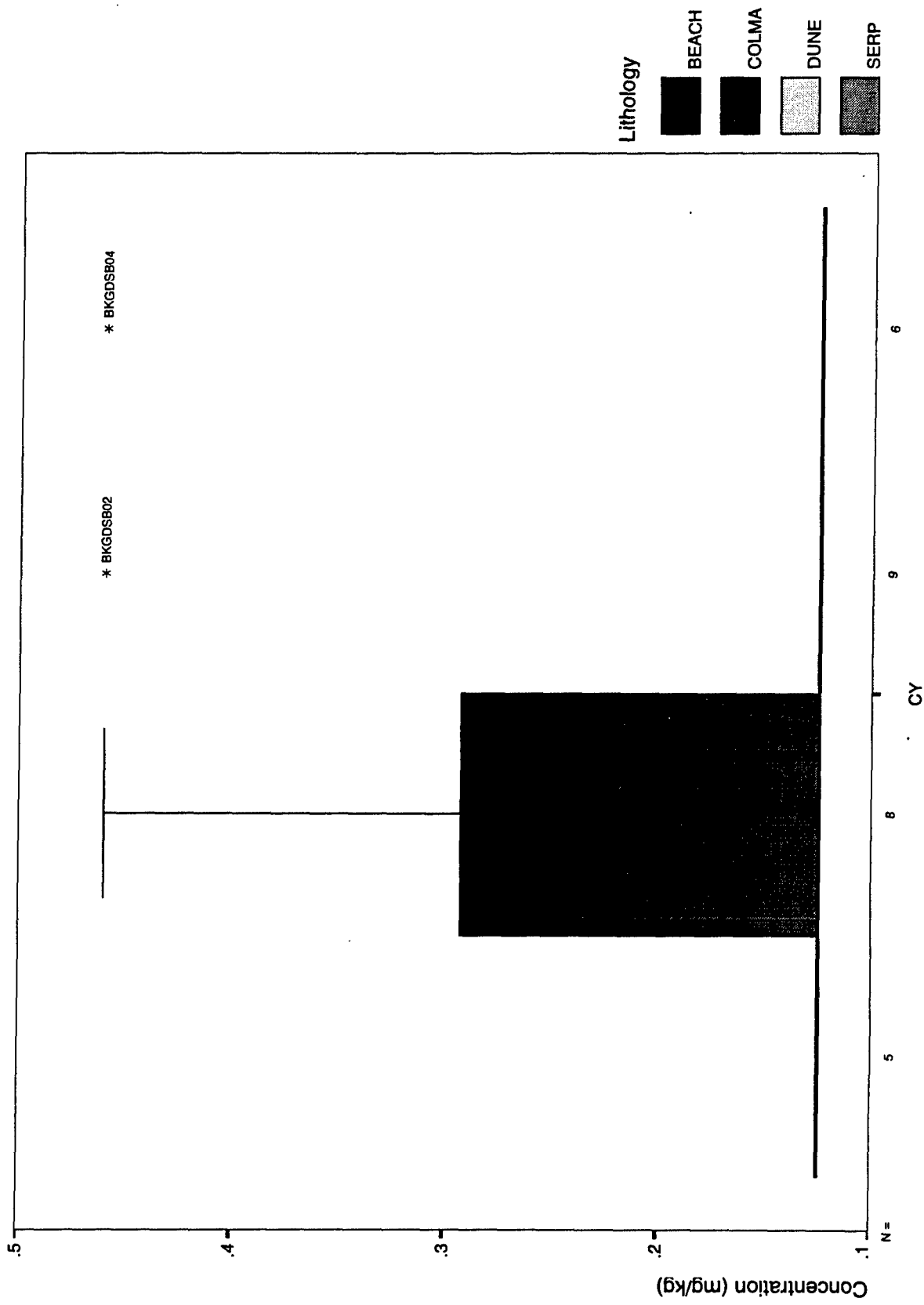
Presidio Background Soils

Copper



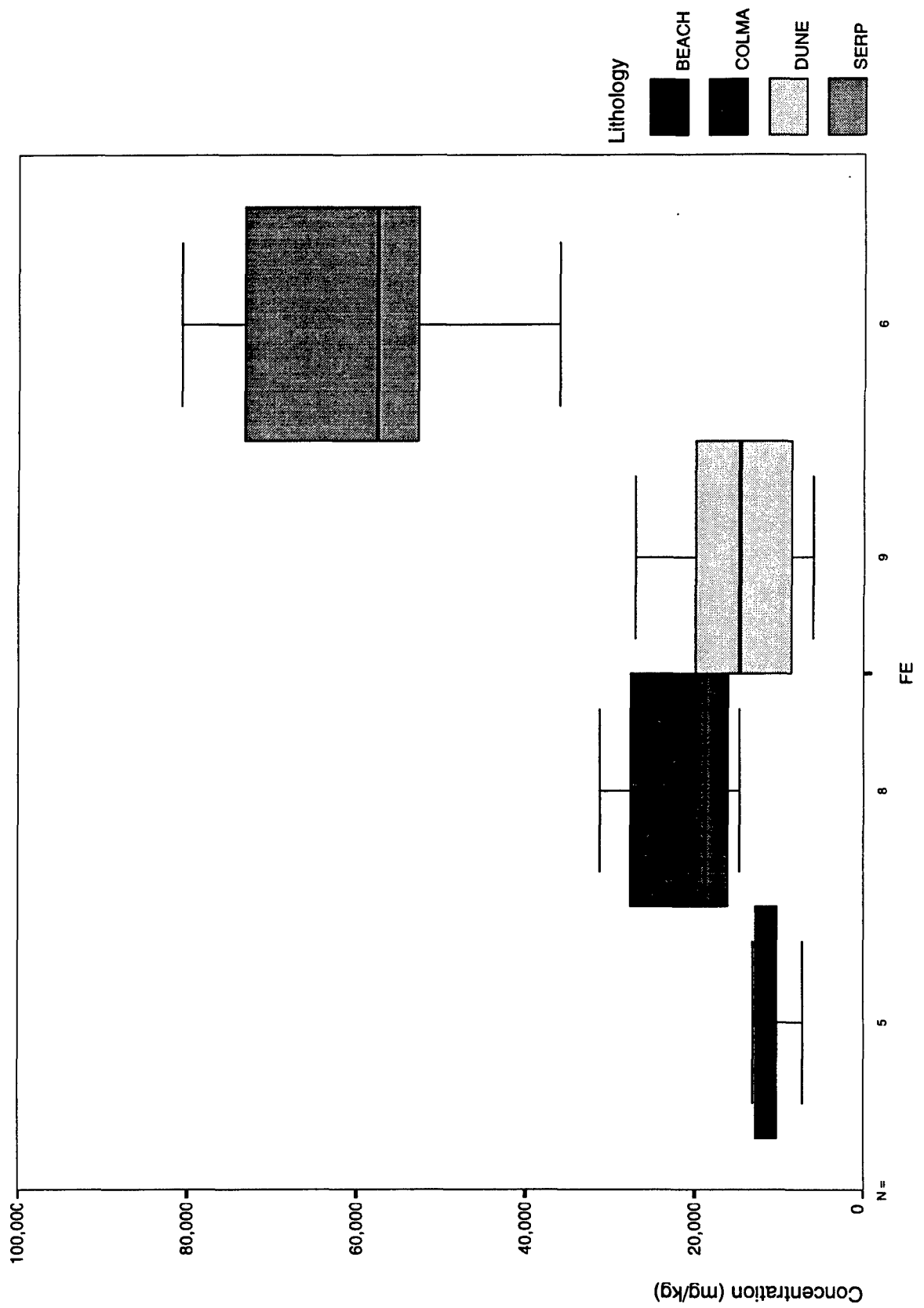
Presidio Background Soils

Cyanide



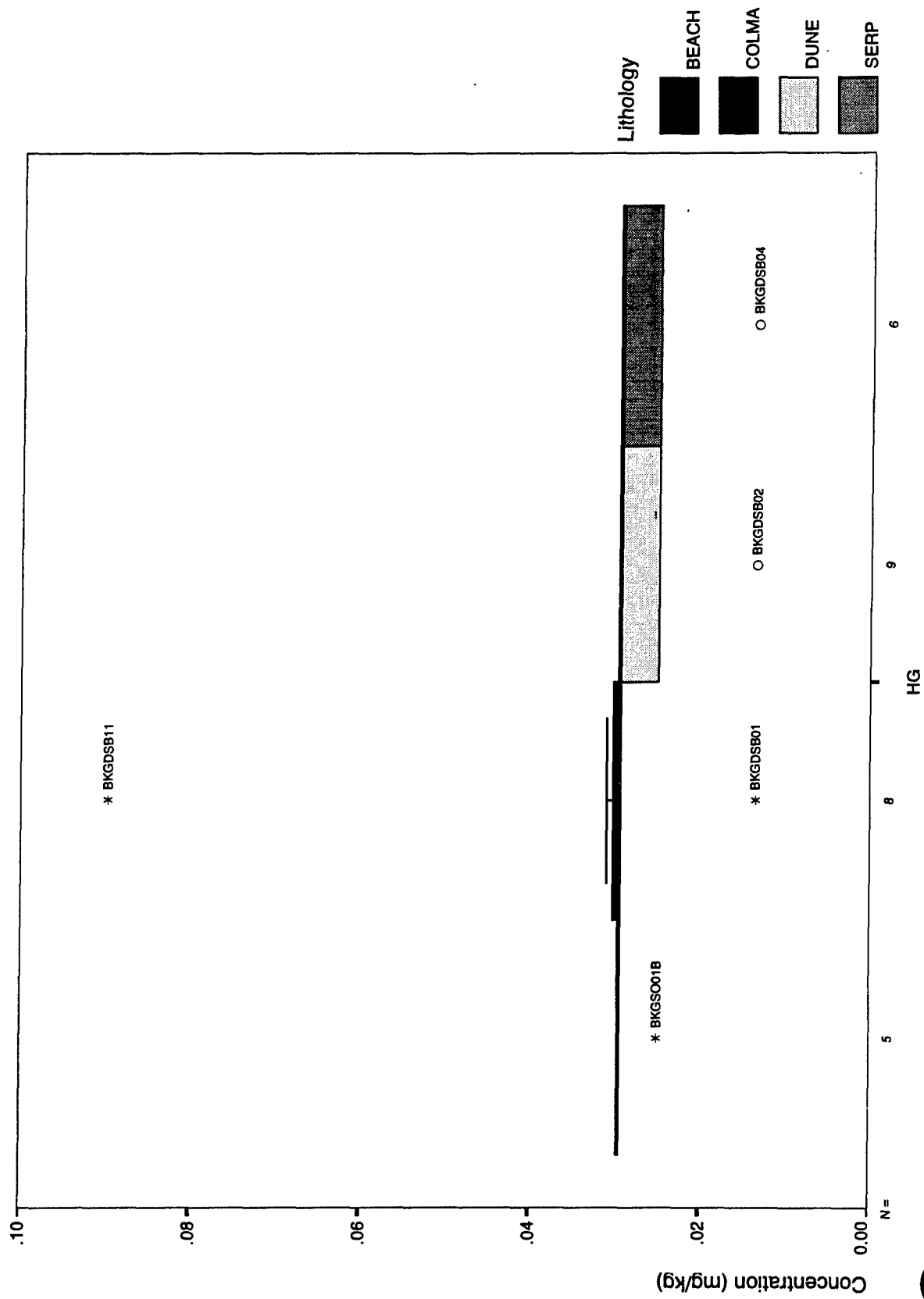
Presidio Background Soils

Iron



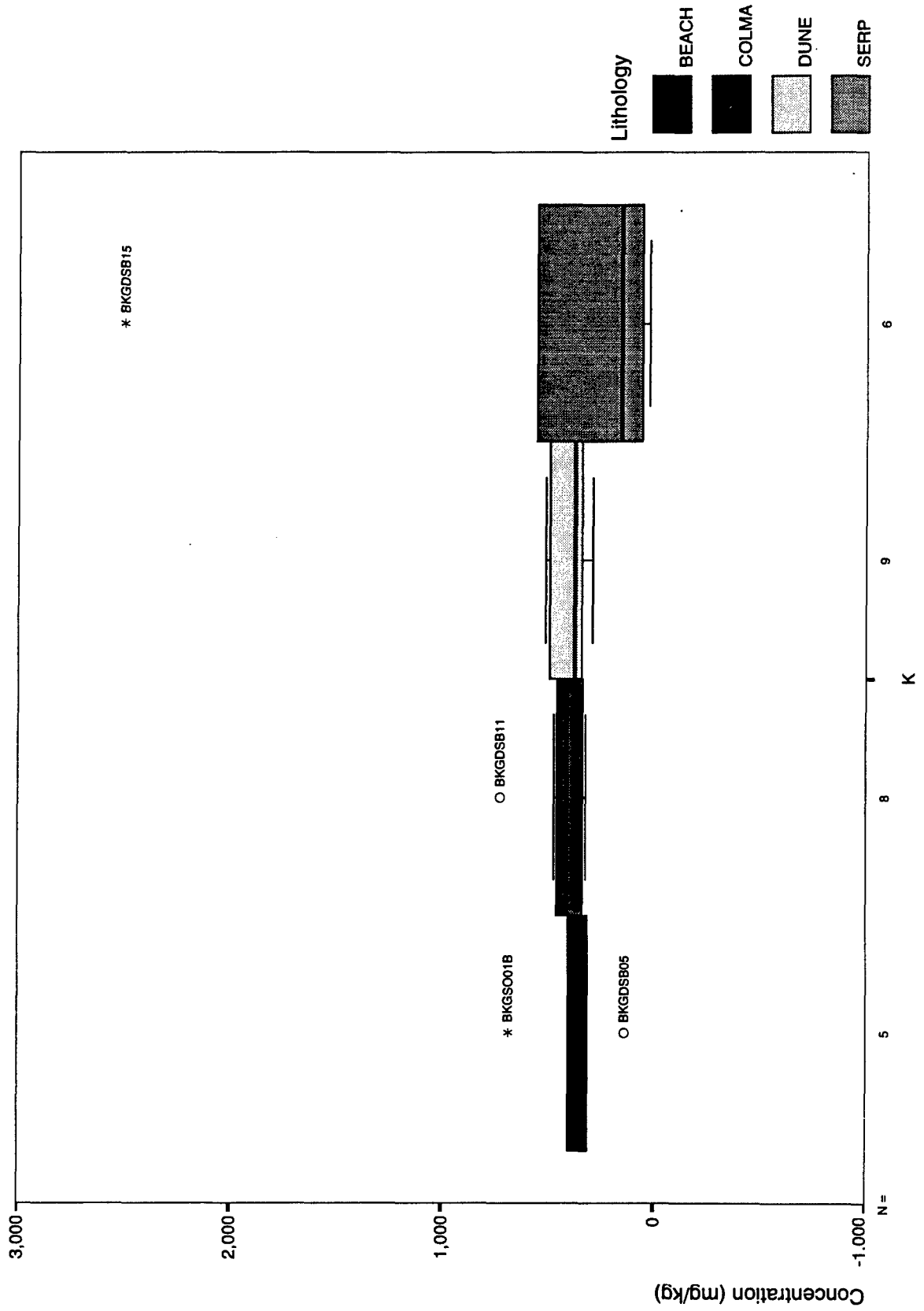
Presidio Background Soils

Mercury



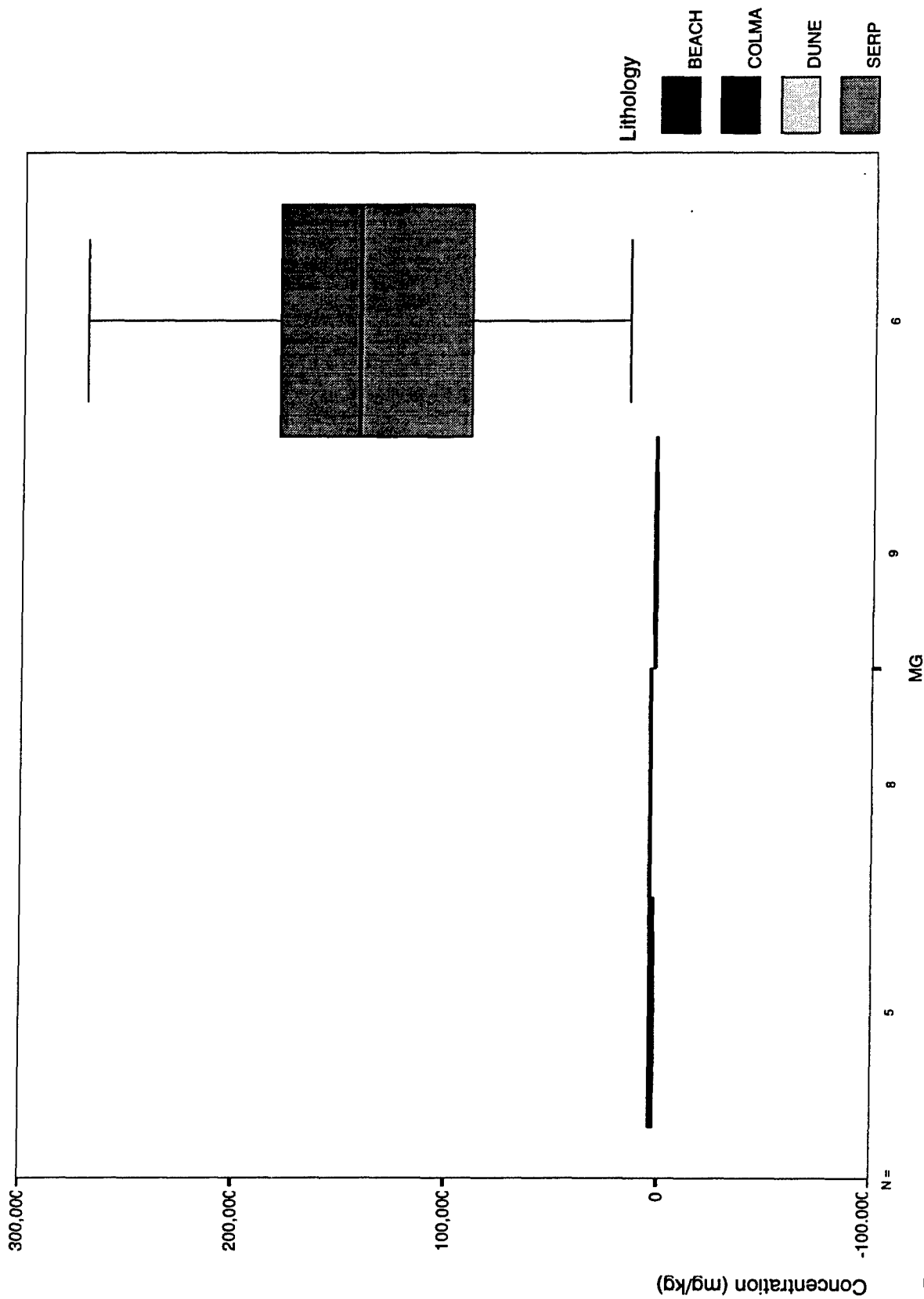
Presidio Background Soils

Potassium



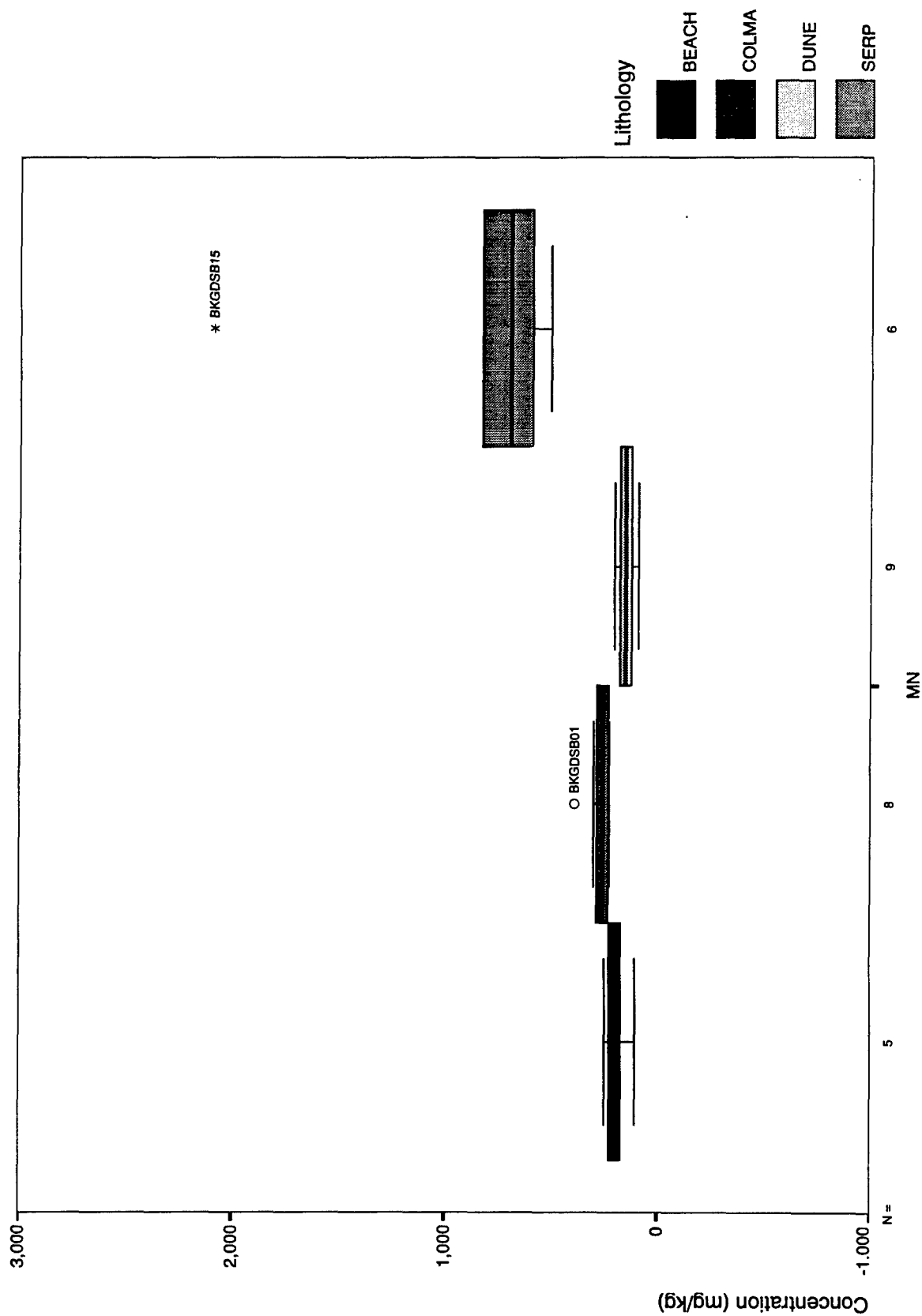
Presidio Background Soils

Magnesium



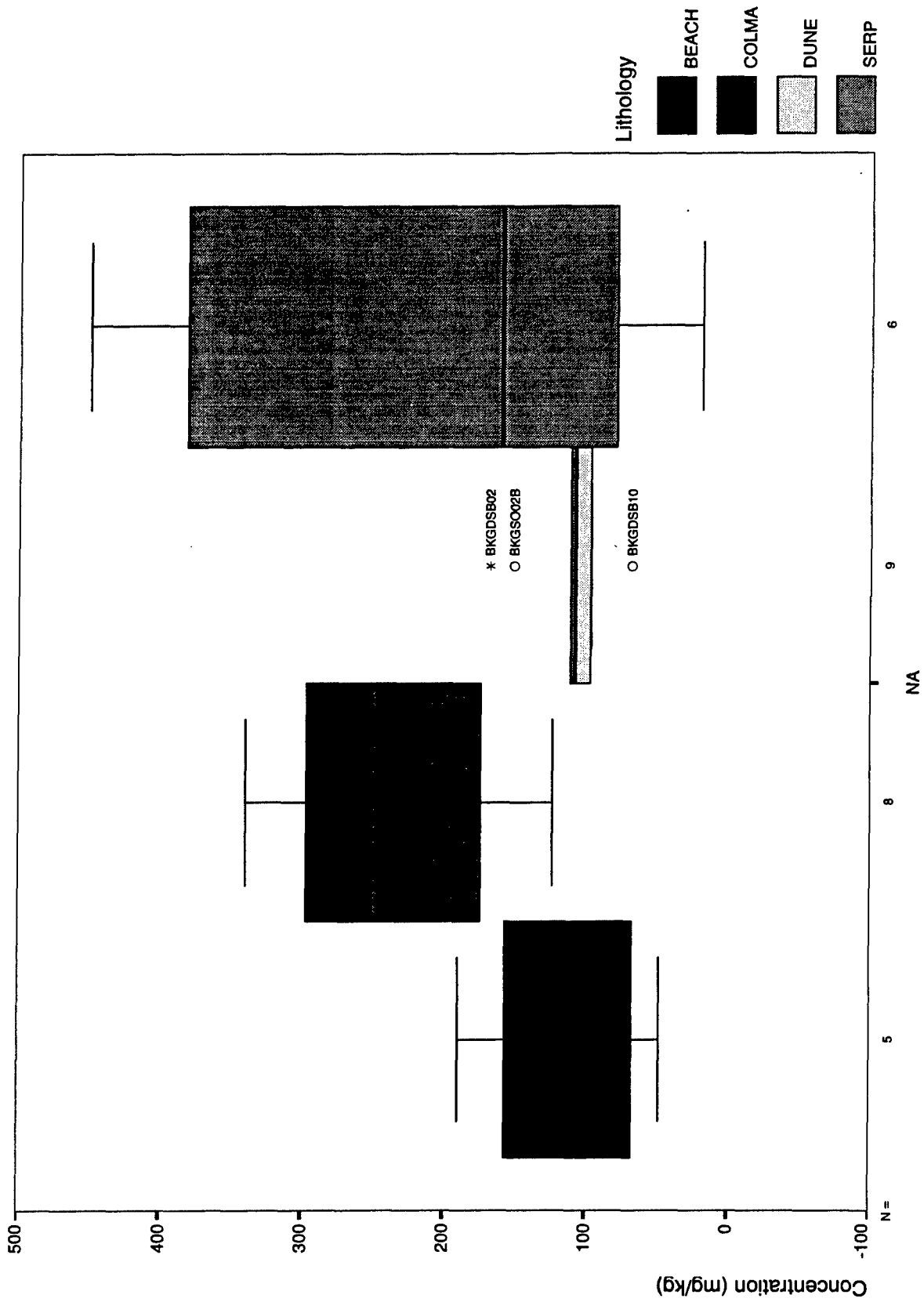
Presidio Background Soils

Manganese



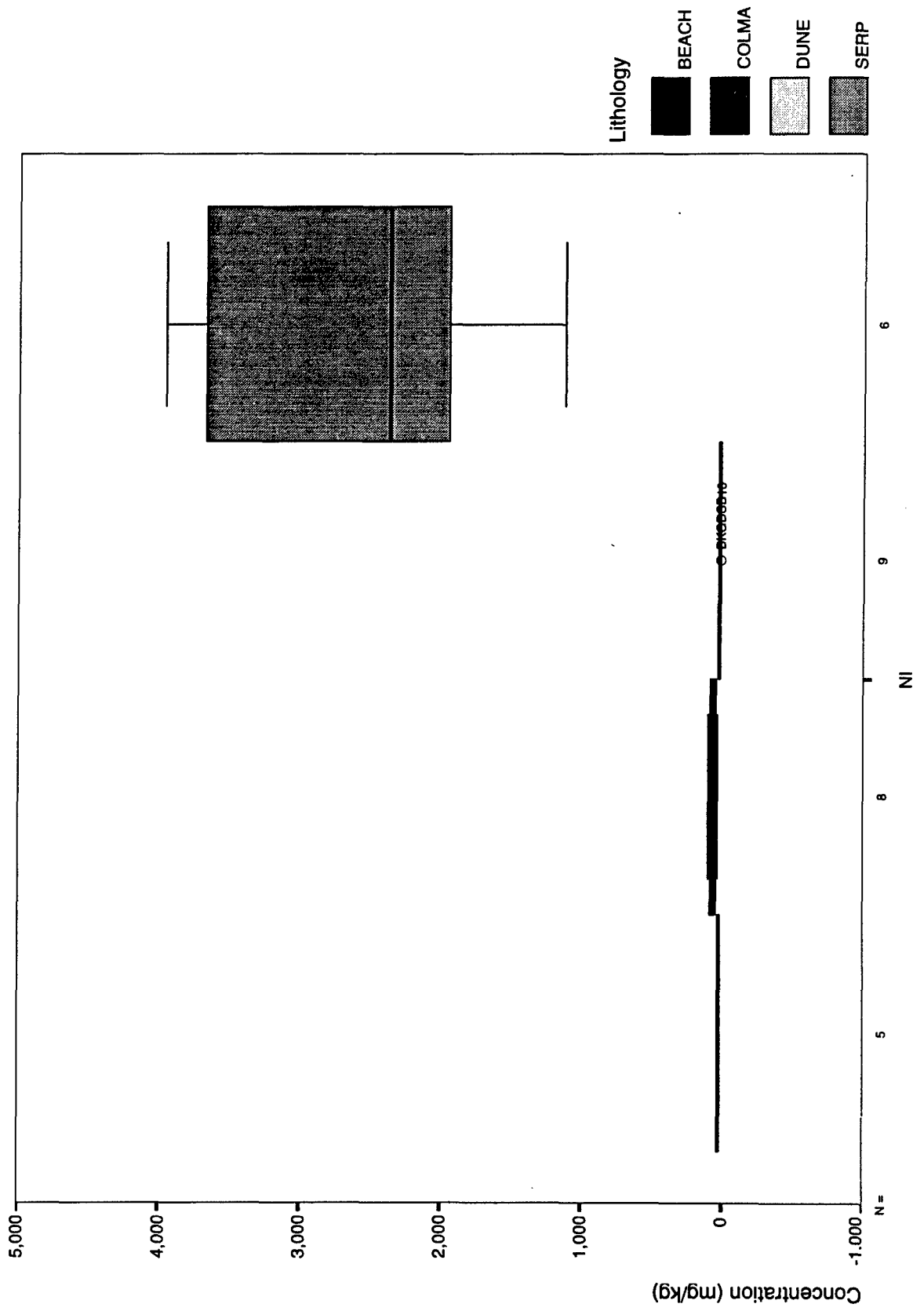
Presidio Background Soils

Sodium



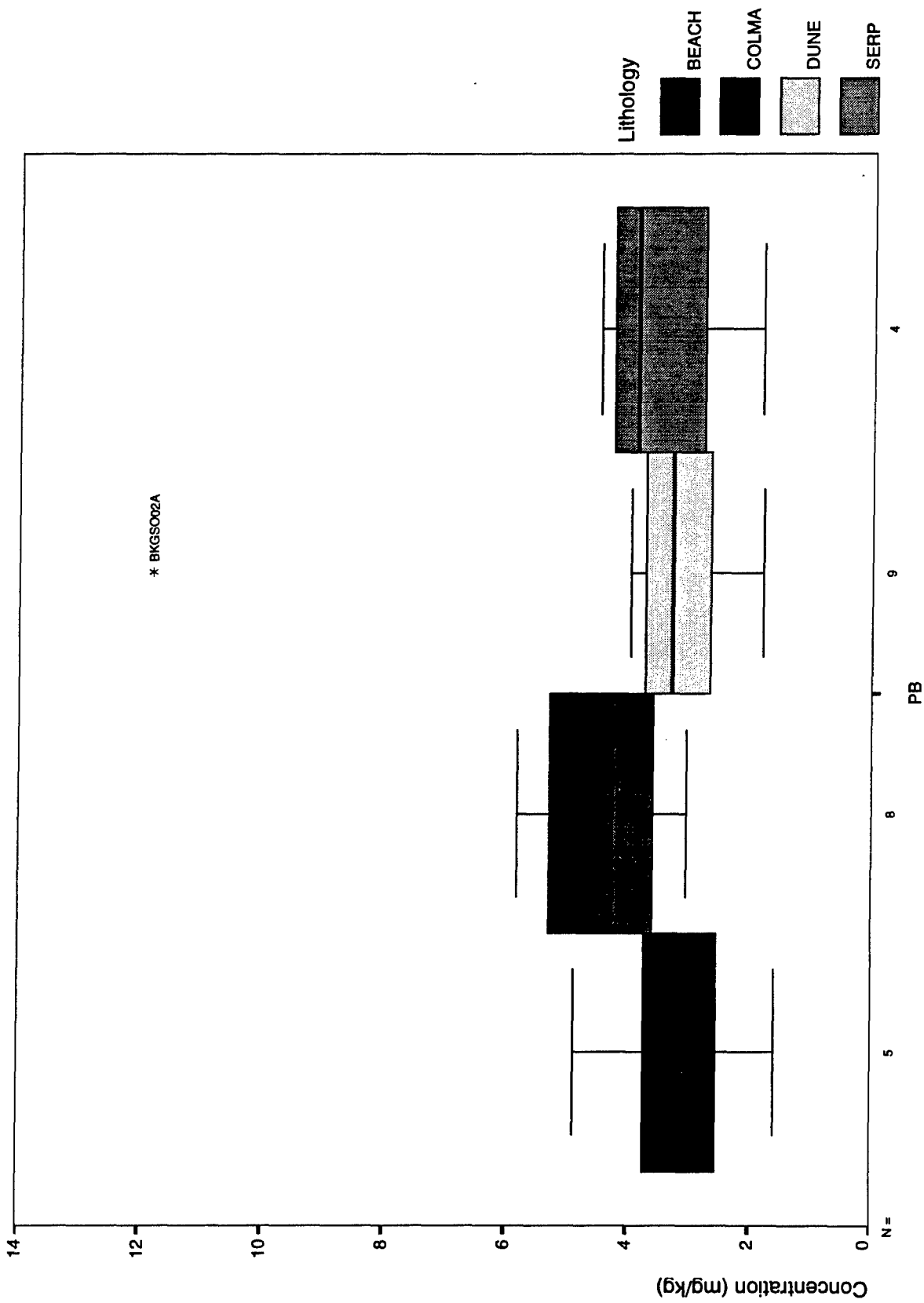
Presidio Background Soils

Nickel



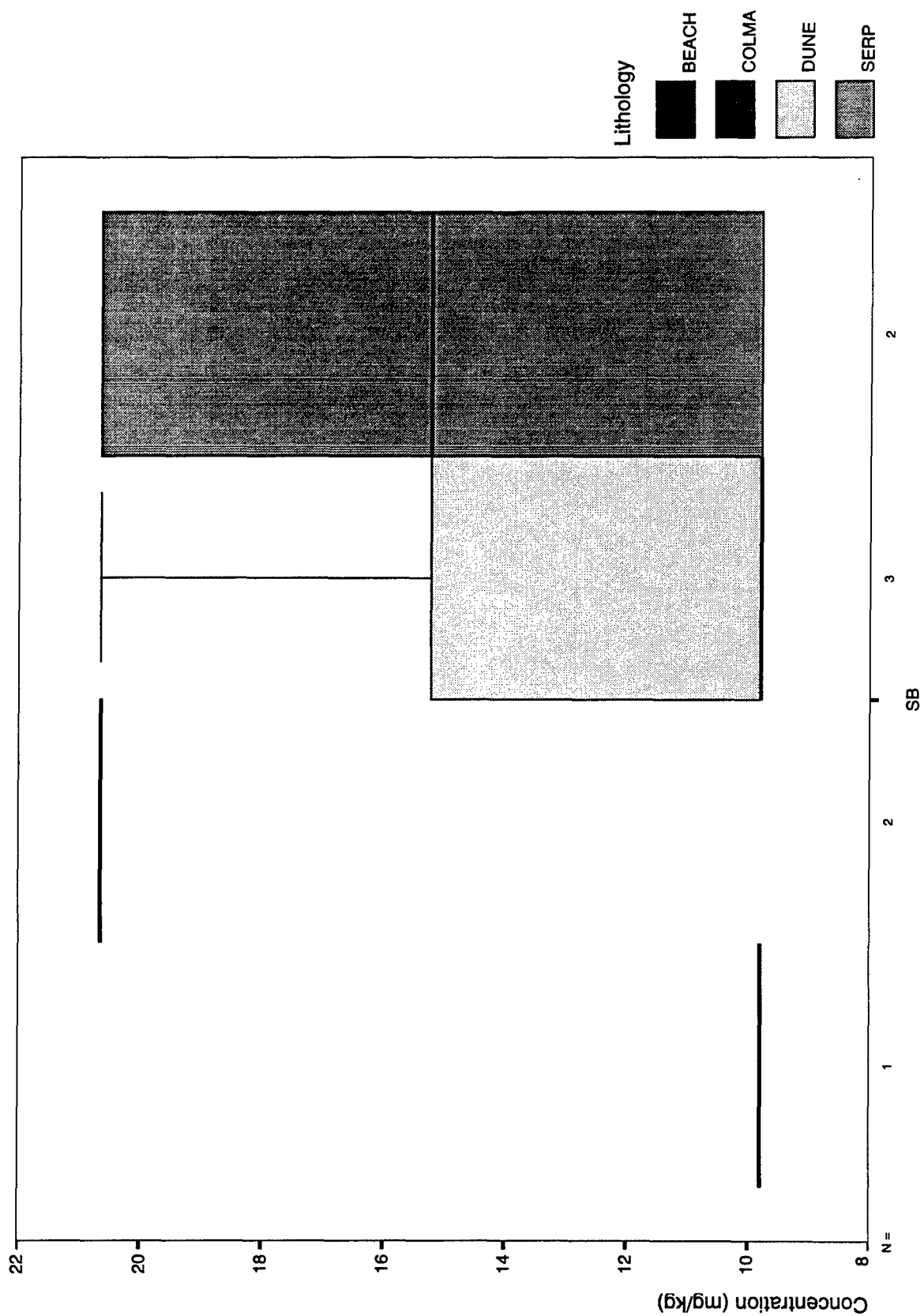
Presidio Background Soils

Lead

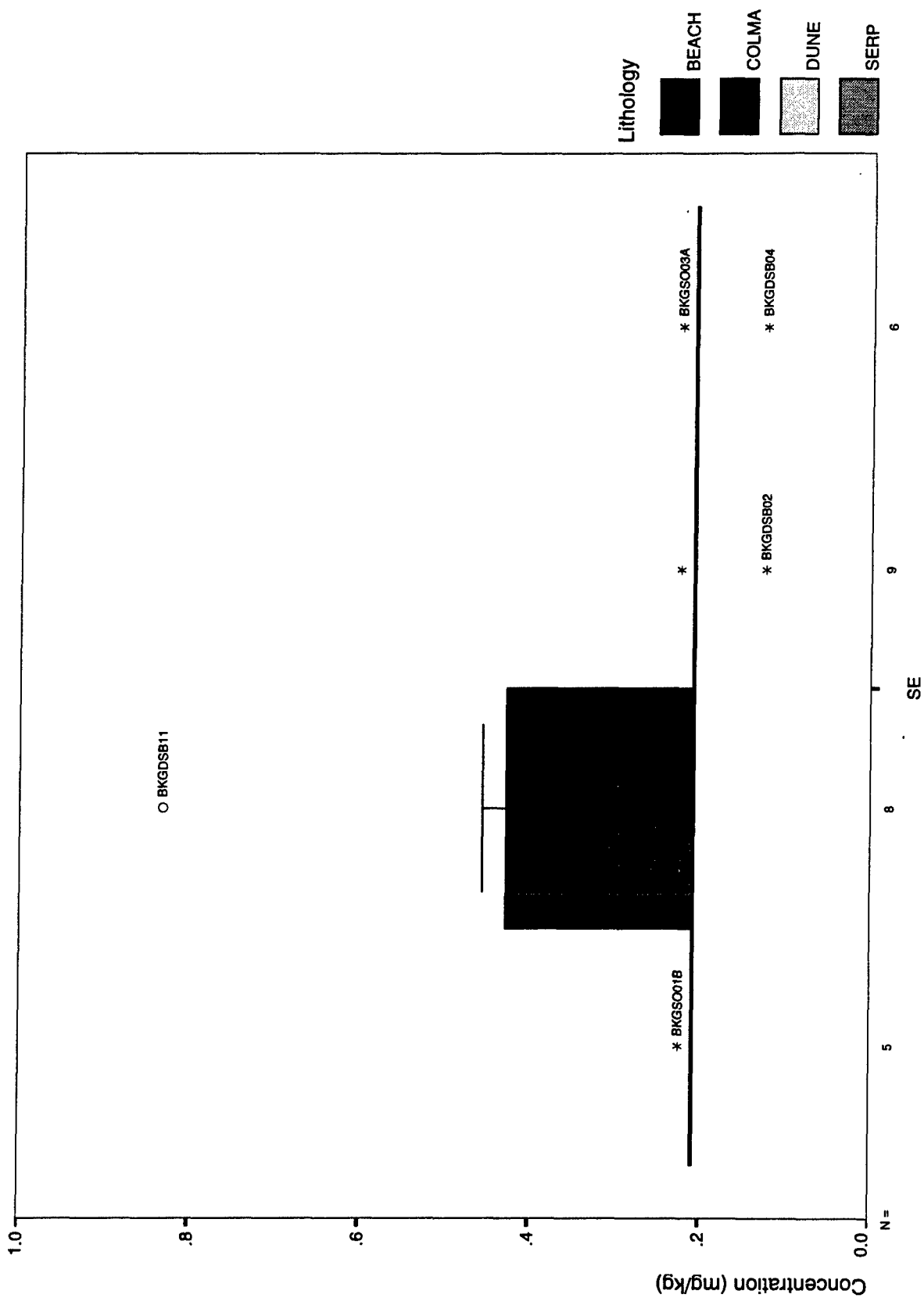


Presidio Background Soils

Antimony

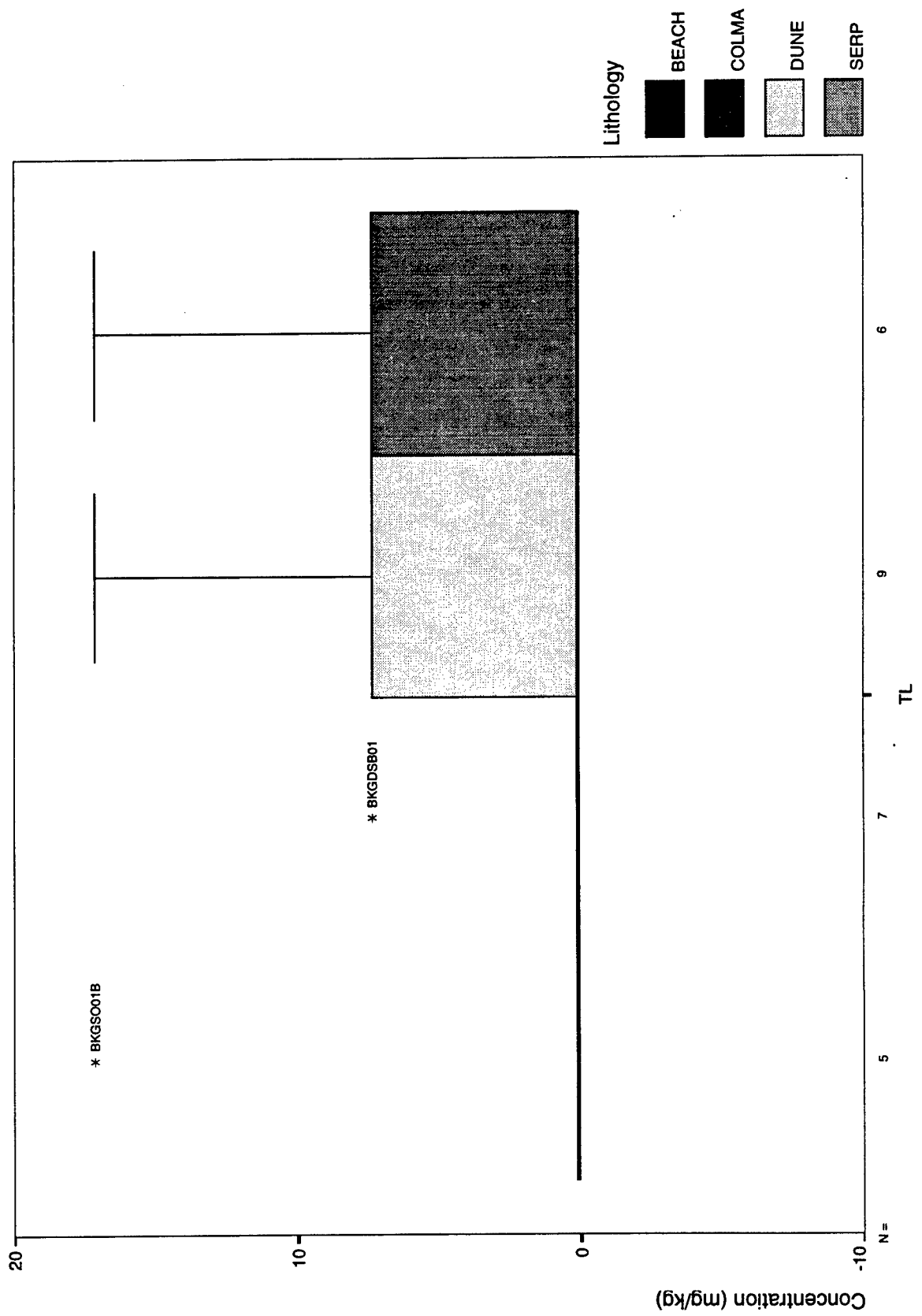


Presidio Background Soils Selenium



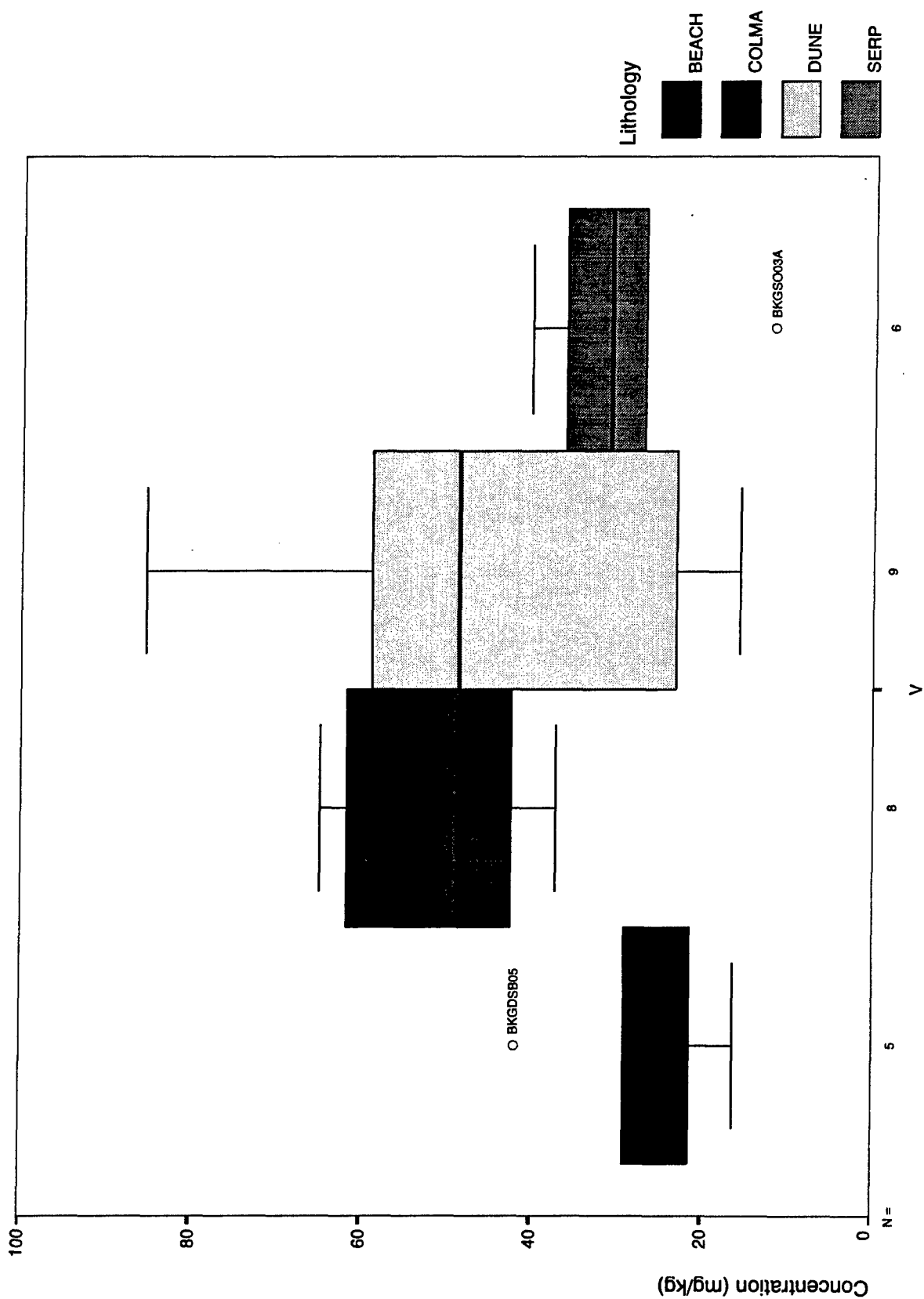
Presidio Background Soils

Thallium



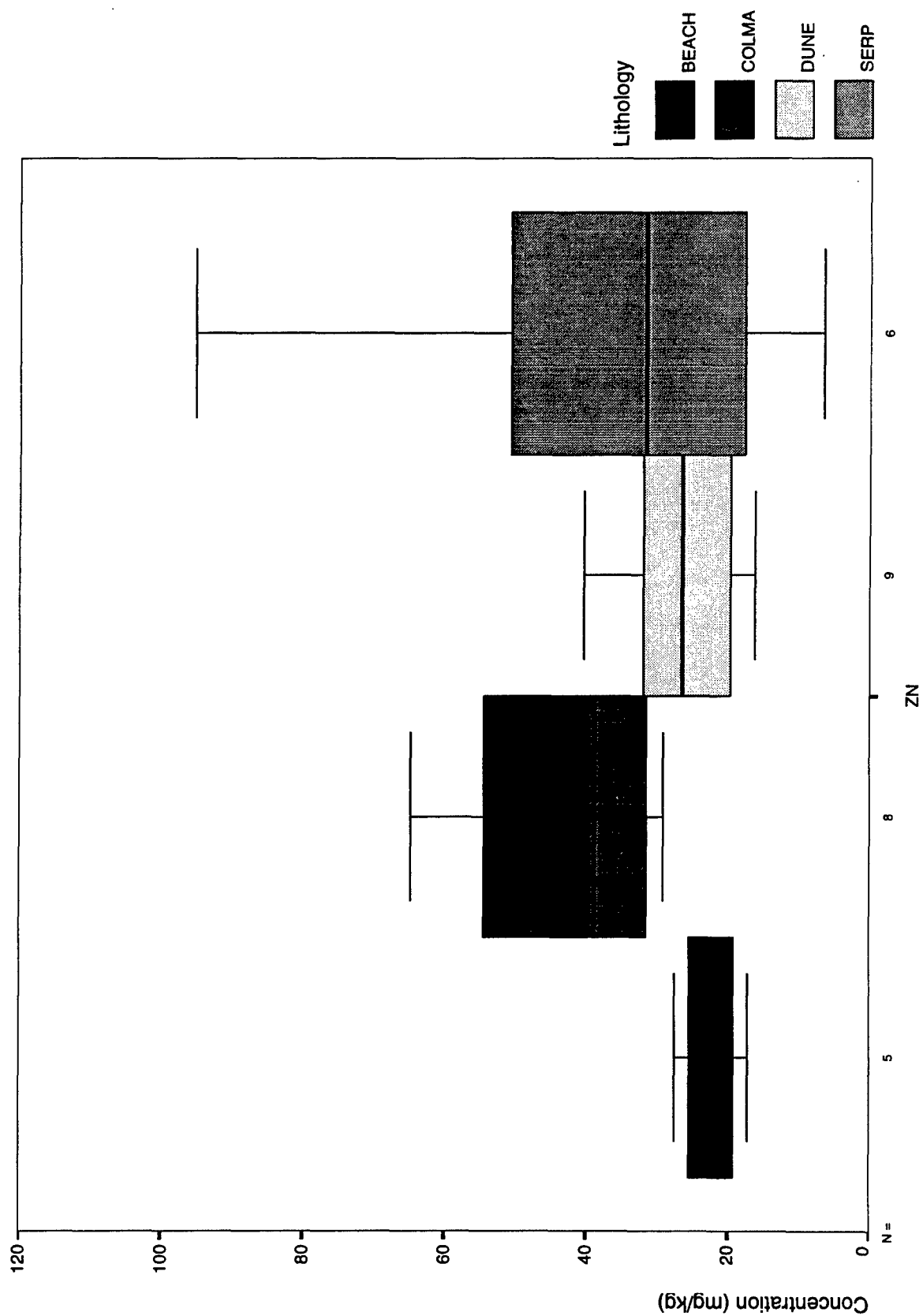
Presidio Background Soils

Vanadium



Presidio Background Soils

Zinc



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Appendix A
Distributional Testing Output and Cumulative
Probability Plots

Beach/Dune Deposits	A-81
Colma Formation	A-163
Serpentinite	A-245
Fill	A-327

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Beach / Dune Deposits

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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3027.0907	Sed-AI	Number of samples		Uncensored values		Sort data	
3	3203.7815	Sed-AI	Uncensored	171	Mean	8157.662	Create report	
4	3256.5445	Sed-AI	Censored		Lognormal mean	8055.348	Clear all	
5	3290	Sed-AI	Detection limit or PQL		Std. devn.	5095.871	Histogram	
6	3292.3077	Sed-AI	Method detection limit		Median	6039.689	5	10
7	3330	Sed-AI	TOTAL	171	Min.	3027.0907	20	
8	3400	Sed-AI	ENTER DATA		Max	31000		
9	3490	Sed-AI	Distribution Decision					
10	3510	Sed-AI	Probability plot method		W test	D'Agostino's test		
11	3600	Sed-AI	Lognormal distribution?		Normal distribution?			
12	3688.7922	Sed-AI	r-squared is: 0.942		r-squared is: 0.809			
13	3800	Sed-AI	Recommendations					
14	3830	Sed-AI	Use lognormal distribution.					
15	3840	Sed-AI						
16	3854.3897	Sed-AI						
17	3880	Sed-AI						
18	3917.1975	Sed-AI						
19	3930	Sed-AI						
20	3950	Sed-AI						
21	3986.711	Sed-AI	Upper Confidence Limit (UCL)					
22	4020	Sed-AI						
23	4030	Sed-AI						
24	4050	Sed-AI						
25	4050	Sed-AI						
26	4088.0503	Sed-AI						
27	4100	Sed-AI						
28	4110	Sed-AI						
29	4120	Sed-AI						
30	4120	Sed-AI						
31	4144.0378	Sed-AI						
32	4220	Sed-AI						
33	4299.3631	Sed-AI						
34	4340	Sed-AI						
35	4340	Sed-AI						
36	4364.5833	Sed-AI						
37	4373.847	Sed-AI						
38	4430.7692	Sed-AI						
39	4440	Sed-AI						
40	4480	Sed-AI						
41	4522.293	Sed-AI						
42	4560	Sed-AI						
43	4580	Sed-AI						
44	4609.6654	Sed-AI						
45	4627.7205	Sed-AI						
46	4642.487	Sed-AI						
47	4645.8333	Sed-AI						
48	4674.3697	Sed-AI						
49	4693.6656	Sed-AI						
50	4750	Sed-AI						
51	4850.0517	Sed-AI						
52	4900	Sed-AI						
53	4940.265	Sed-AI						
54	4983.3887	Sed-AI						
55	4990	Sed-AI						
56	5047.7327	Sed-AI						
57	5070	Sed-AI						
58	5077.527	Sed-AI						
59	5084.2105	Sed-AI						
60	5120	Sed-AI						
61	5186.7305	Sed-AI						
62	5200	Sed-AI						
63	5200.913	Sed-AI						
64	5229.3578	Sed-AI						
65	5241.0901	Sed-AI						
66	5252.351	Sed-AI						
67	5273.769	Sed-AI						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

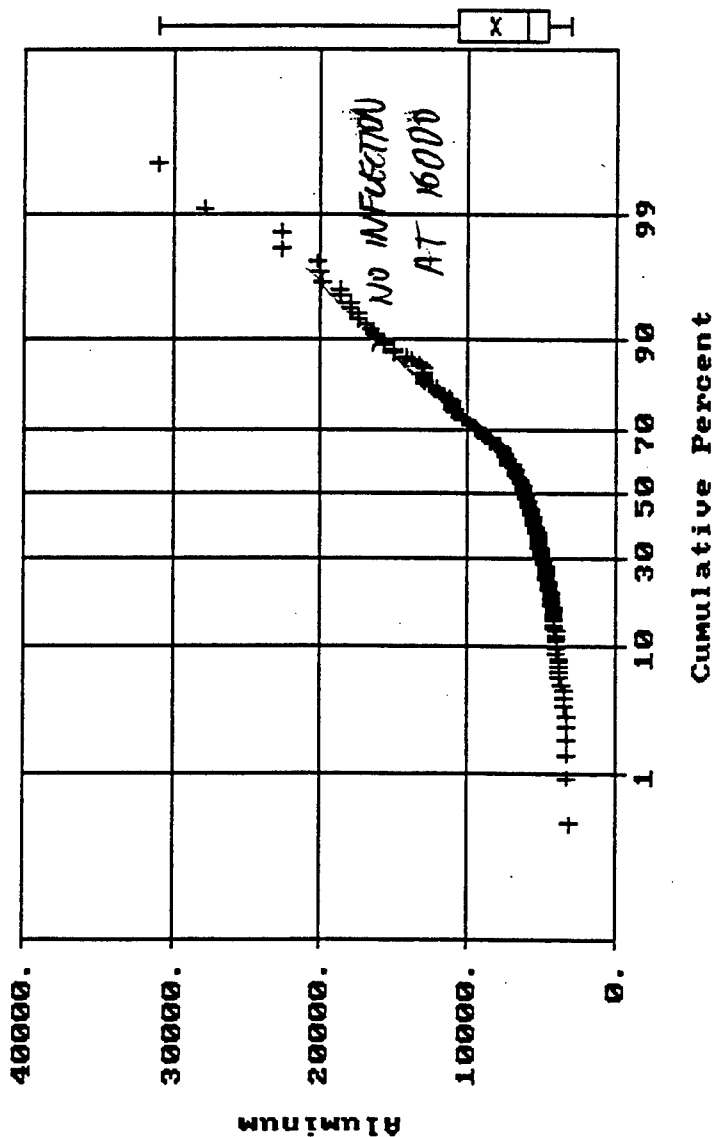
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3027.0907	Sed-AI	Number of samples		Uncensored values		Sort data	
3	3203.7815	Sed-AI	Uncensored	171	Mean	8157.662	Create report	
4	3256.5445	Sed-AI	Censored		Lognormal mean	8055.348	Clear all	
5	3290	Sed-AI	Detection limit or PQL	-----	Std. devn.	5095.871	Histogram	
6	3292.3077	Sed-AI	Method detection limit		Median	6039.689	5 10 20	
7	3330	Sed-AI	TOTAL	171	Min.	3027.0907		
8	3400	Sed-AI	ENTER DATA		Max	31000		
9	3490	Sed-AI	Distribution Decision					
10	3510	Sed-AI	Probability plot method		W test	D'Agostino's test		
11	3600	Sed-AI	Lognormal distribution?		Normal distribution?			
12	3688.7922	Sed-AI	r-squared is: 0.942		r-squared is: 0.809			
13	3800	Sed-AI	Recommendations:					
14	3830	Sed-AI	Assume lognormal distribution.					
15	3840	Sed-AI	Y value is -0.8388. This lies within the tabled values of -1.4537 and -2.4264					
16	3854.3897	Sed-AI						
17	3880	Sed-AI						
18	3917.1975	Sed-AI						
19	3930	Sed-AI						
20	3950	Sed-AI						
21	3986.711	Sed-AI	Upper Confidence Limit (UCL)					
22	4020	Sed-AI						
23	4030	Sed-AI						
24	4050	Sed-AI						
25	4050	Sed-AI						
26	4088.0503	Sed-AI						
27	4100	Sed-AI						
28	4110	Sed-AI						
29	4120	Sed-AI						
30	4120	Sed-AI						
31	4144.0378	Sed-AI						
32	4220	Sed-AI						
33	4299.3631	Sed-AI						
34	4340	Sed-AI						
35	4340	Sed-AI						
36	4364.5833	Sed-AI						
37	4373.847	Sed-AI						
38	4430.7692	Sed-AI						
39	4440	Sed-AI						
40	4480	Sed-AI						
41	4522.293	Sed-AI						
42	4560	Sed-AI						
43	4580	Sed-AI						
44	4609.6654	Sed-AI						
45	4627.7205	Sed-AI						
46	4642.487	Sed-AI						
47	4645.8333	Sed-AI						
48	4674.3697	Sed-AI						
49	4693.6656	Sed-AI						
50	4750	Sed-AI						
51	4850.0517	Sed-AI						
52	4900	Sed-AI						
53	4940.265	Sed-AI						
54	4983.3887	Sed-AI						
55	4990	Sed-AI						
56	5047.7327	Sed-AI						
57	5070	Sed-AI						
58	5077.527	Sed-AI						
59	5084.2105	Sed-AI						
60	5120	Sed-AI						
61	5186.7305	Sed-AI						
62	5200	Sed-AI						
63	5200.913	Sed-AI						
64	5229.3578	Sed-AI						
65	5241.0901	Sed-AI						
66	5252.351	Sed-AI						
67	5273.769	Sed-AI						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

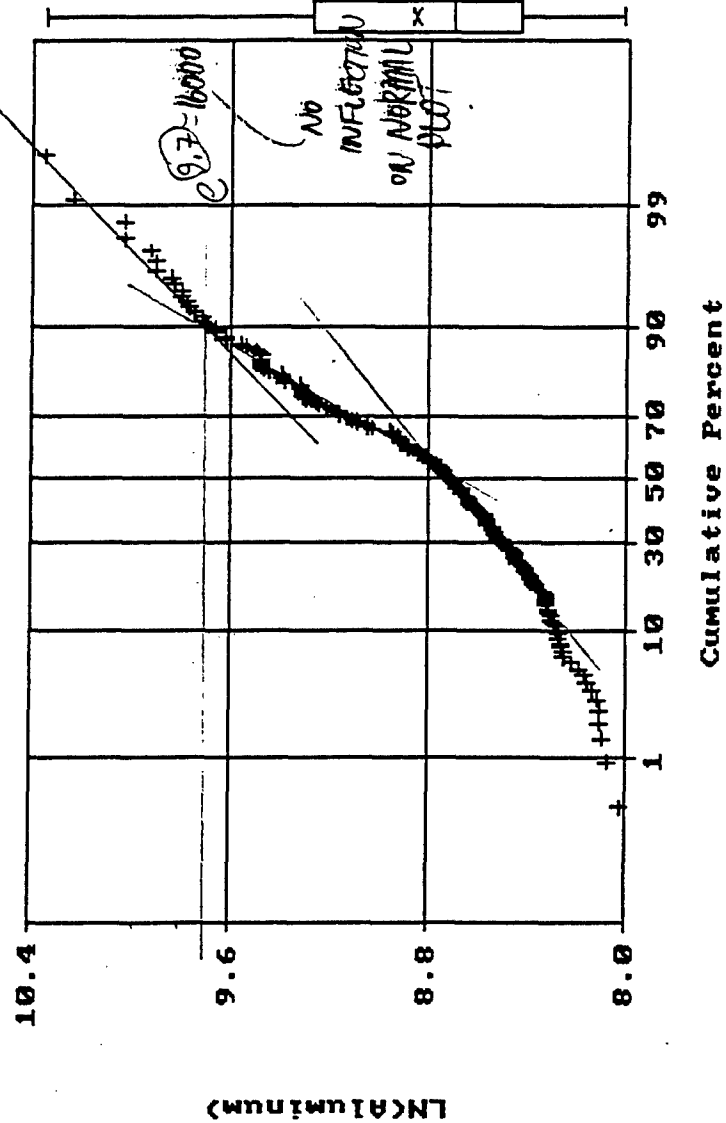
Normal Probability Plot for Aluminum
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	8157.662
Variance:	25967900.000
Std. Dev:	5095.871
% C.V. :	62.467
Skewness:	1.679
Kurtosis:	5.985
Minimum :	3027.091
25th % :	4602.249
Median :	6039.689
75th % :	10645.530
Maximum :	31000.000



Normal Probability Plot for LN(Aluminum)
Data file: sed-all.dat



Statistics

N Total	:	259
N Miss	:	88
N Used	:	171
Mean	:	8.854
Variance	:	.281
Std. Dev.	:	.530
% C.V.	:	5.985
Skewness	:	.653
Kurtosis	:	2.491
Minimum	:	8.015
25th %	:	8.434
Median	:	8.706
75th %	:	9.273
Maximum	:	10.342

9.7

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.625	Sed-As	Number of samples		Uncensored values		Sort data	
3	0.708	Sed-As	Uncensored	173	Mean	2.825	Create report	
4	1.11	Sed-As	Censored		Lognormal mean	2.804	Clear all	
5	1.11	Sed-As	Detection limit or PQL	-----	Std. devn.	1.955	Histogram	
6	1.1706	Sed-As	Method detection limit	-----	Median	2.69	5	10
7	1.2495	Sed-As	TOTAL	173	Min.	0.625	20	
8	1.25	Sed-As	ENTER DATA		Max.	21.645		
9	1.25	Sed-As	Distribution Decision					
10	1.25	Sed-As	Probability plot method		W test	D'Agostino's test		
11	1.25	Sed-As	Lognormal distribution?		Normal distribution?			
12	1.25	Sed-As	r-squared is: 0.933		r-squared is: 0.605			
13	1.25	Sed-As	Recommendations					
14	1.25	Sed-As	Use lognormal distribution.					
15	1.25	Sed-As						
16	1.25	Sed-As						
17	1.25	Sed-As						
18	1.25	Sed-As						
19	1.25	Sed-As						
20	1.25	Sed-As						
21	1.25	Sed-As	Upper Confidence Limit (UCL)					
22	1.25	Sed-As						
23	1.25	Sed-As						
24	1.25	Sed-As						
25	1.25	Sed-As						
26	1.25	Sed-As						
27	1.25	Sed-As						
28	1.25	Sed-As						
29	1.25	Sed-As						
30	1.25	Sed-As						
31	1.25	Sed-As						
32	1.25	Sed-As						
33	1.25	Sed-As						
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35	1.25	Sed-As						
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40	1.25	Sed-As						
41	1.25	Sed-As						
42	1.25	Sed-As						
43	1.25	Sed-As						
44	1.25	Sed-As						
45	1.41	Sed-As						
46	1.44	Sed-As						
47	1.4797	Sed-As						
48	1.4867	Sed-As						
49	1.5063	Sed-As						
50	1.6649	Sed-As						
51	1.6807	Sed-As						
52	1.7167	Sed-As						
53	1.72	Sed-As						
54	1.72	Sed-As						
55	1.7813	Sed-As						
56	1.7941	Sed-As						
57	1.85	Sed-As						
58	1.8801	Sed-As						
59	1.9	Sed-As						
60	1.9958	Sed-As						
61	2.13	Sed-As						
62	2.1823	Sed-As						
63	2.19	Sed-As						
64	2.2293	Sed-As						
65	2.24	Sed-As						
66	2.26	Sed-As						
67	2.2917	Sed-As						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

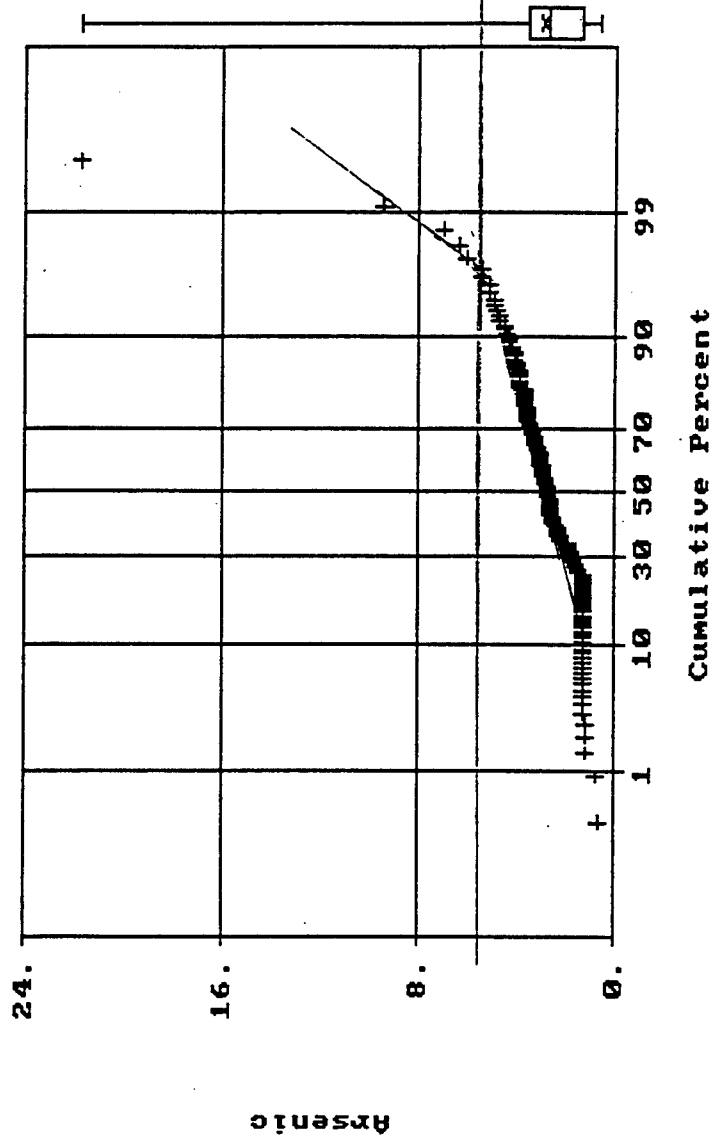
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.625	Sed-As	Number of samples Uncensored values				Sort data	
3	0.708	Sed-As	Uncensored 173 Mean 2.825				Create report	
4	1.11	Sed-As	Censored Lognormal mean 2.804				Clear all	
5	1.11	Sed-As	Detection limit or PQL Std. devn. 1.955				Histogram	
6	1.1706	Sed-As	Method detection limit Median 2.69				5 10 20	
7	1.2495	Sed-As	TOTAL 173 Min. 0.625				Clear messages	
8	1.25	Sed-As	ENTER DATA Max 21.645				Calculate UCL	
9	1.25	Sed-As	Distribution Decision				Lognormal	
10	1.25	Sed-As	Probability plot method W test D'Agostino's test				Normal	
11	1.25	Sed-As	Lognormal distribution? Normal distribution?				Neither	
12	1.25	Sed-As	r-squared is: 0.933 r-squared is: 0.605				Sample size	
13	1.25	Sed-As	Recommendations					
14	1.25	Sed-As	Reject lognormal distribution.					
15	1.25	Sed-As	Y value is -2.7928. This lies outside the tabled values of 1.4566 and -2.4239					
16	1.25	Sed-As	Reject normal distribution.					
17	1.25	Sed-As	Y value is -32.2516. This lies outside the tabled values of 1.4566 and -2.4239					
18	1.25	Sed-As	Upper Confidence Limit (UCL)					
19	1.25	Sed-As						
20	1.25	Sed-As						
21	1.25	Sed-As						
22	1.25	Sed-As						
23	1.25	Sed-As						
24	1.25	Sed-As						
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49	1.5063	Sed-As						
50	1.6649	Sed-As						
51	1.6807	Sed-As						
52	1.7167	Sed-As						
53	1.72	Sed-As						
54	1.72	Sed-As						
55	1.7813	Sed-As						
56	1.7941	Sed-As						
57	1.85	Sed-As						
58	1.8801	Sed-As						
59	1.9	Sed-As						
60	1.9958	Sed-As						
61	2.13	Sed-As						
62	2.1823	Sed-As						
63	2.19	Sed-As						
64	2.2293	Sed-As						
65	2.24	Sed-As						
66	2.26	Sed-As						
67	2.2917	Sed-As						

Normal Probability Plot for Arsenic
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	86
N Used :	173
Mean :	2.825
Variance:	3.821
Std. Dev:	1.955
% C.V. :	69.210
Skewness:	5.481
Kurtosis:	51.439
Minimum :	.625
25th % :	1.290
Median :	2.690
75th % :	3.520
Maximum :	21.645

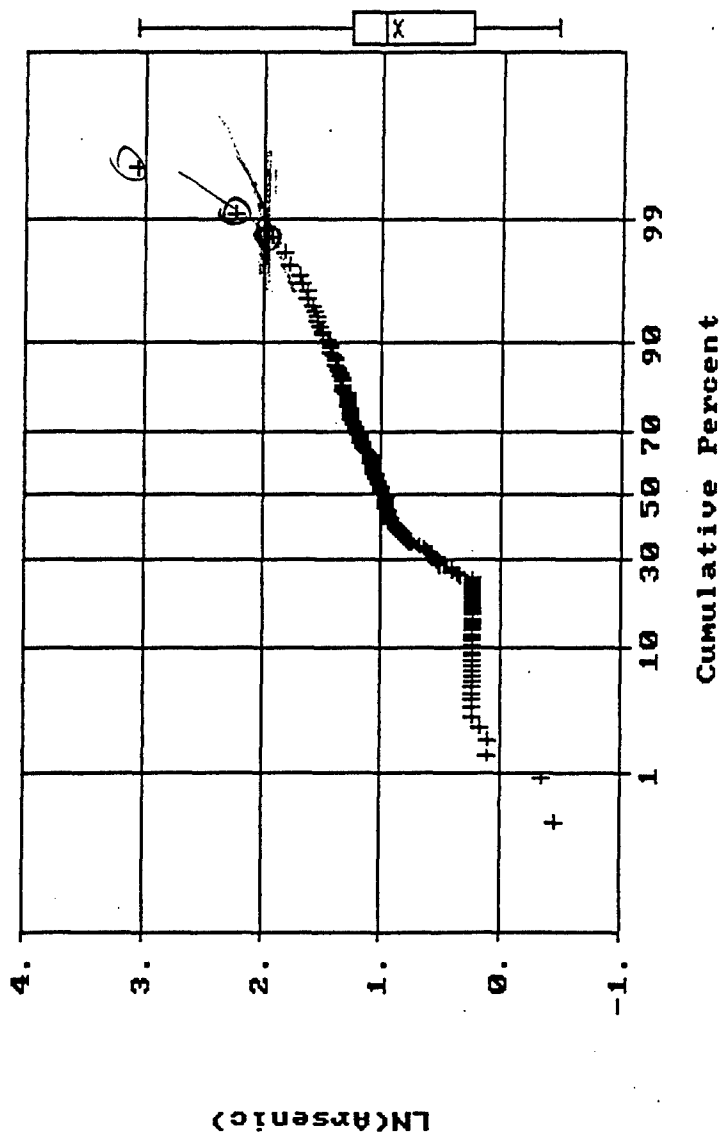


Threshold = 6.0

Normal Probability Plot for LN(Arsenic)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	86
N Used :	173
Mean :	.893
Variance:	.277
Std. Dev:	.526
% C.V. :	58.956
Skewness:	.177
Kurtosis:	3.640
Minimum :	-.470
25th % :	.253
Median :	.990
75th % :	1.258
Maximum :	3.075



Threshold = 6.0

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	7.1817	Sed-Ba	Number of samples		Uncensored values		Sort data	
3	7.2821	Sed-Ba	Uncensored	171	Mean	60.765	Create report	
4	7.8676	Sed-Ba	Censored		Lognormal mean	55.660	Clear all	
5	7.89	Sed-Ba	Detection limit or PQL		Std. devn.	90.661	Histogram	
6	8.1174	Sed-Ba	Method detection limit		Median	26	5	
7	9.1328	Sed-Ba	TOTAL	171	Min.	7.1817	10	
8	9.23	Sed-Ba	ENTER DATA		Max	673	20	
9	9.35	Sed-Ba	Distribution Decision				Clear messages	
10	9.403	Sed-Ba	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	9.5597	Sed-Ba	Lognormal distribution?		Normal distribution?		Lognormal	
12	9.77	Sed-Ba	r-squared is: 0.939		r-squared is: 0.566		Normal	
13	9.88	Sed-Ba	Recommendations:				Neither	
14	10.223	Sed-Ba	Use lognormal distribution.				Sample size	
15	10.3	Sed-Ba	Upper Confidence Limit (UCL)					
16	10.3	Sed-Ba						
17	10.4459	Sed-Ba						
18	10.5208	Sed-Ba						
19	10.7853	Sed-Ba						
20	10.8	Sed-Ba						
21	10.8	Sed-Ba						
22	10.9	Sed-Ba						
23	10.9	Sed-Ba						
24	11	Sed-Ba						
25	11.2721	Sed-Ba						
26	11.317	Sed-Ba						
27	11.7647	Sed-Ba						
28	11.875	Sed-Ba						
29	11.934	Sed-Ba						
30	12.18	Sed-Ba						
31	12.8931	Sed-Ba						
32	13.083	Sed-Ba						
33	13.089	Sed-Ba						
34	13.1579	Sed-Ba						
35	13.1606	Sed-Ba						
36	13.239	Sed-Ba						
37	13.3	Sed-Ba						
38	14	Sed-Ba						
39	14.1	Sed-Ba						
40	14.397	Sed-Ba						
41	14.5218	Sed-Ba						
42	14.6	Sed-Ba						
43	14.7	Sed-Ba						
44	14.726	Sed-Ba						
45	14.8	Sed-Ba						
46	14.8958	Sed-Ba						
47	15.0685	Sed-Ba						
48	15.084	Sed-Ba						
49	15.2	Sed-Ba						
50	15.303	Sed-Ba						
51	15.348	Sed-Ba						
52	15.3931	Sed-Ba						
53	15.5	Sed-Ba						
54	16	Sed-Ba						
55	16.1	Sed-Ba						
56	16.2	Sed-Ba						
57	16.2134	Sed-Ba						
58	16.376	Sed-Ba						
59	16.9905	Sed-Ba						
60	17.0631	Sed-Ba						
61	17.1	Sed-Ba						
62	17.5	Sed-Ba						
63	17.5385	Sed-Ba						
64	17.7198	Sed-Ba						
65	18	Sed-Ba						
66	18.2	Sed-Ba						
67	18.5	Sed-Ba						

Background data analysis

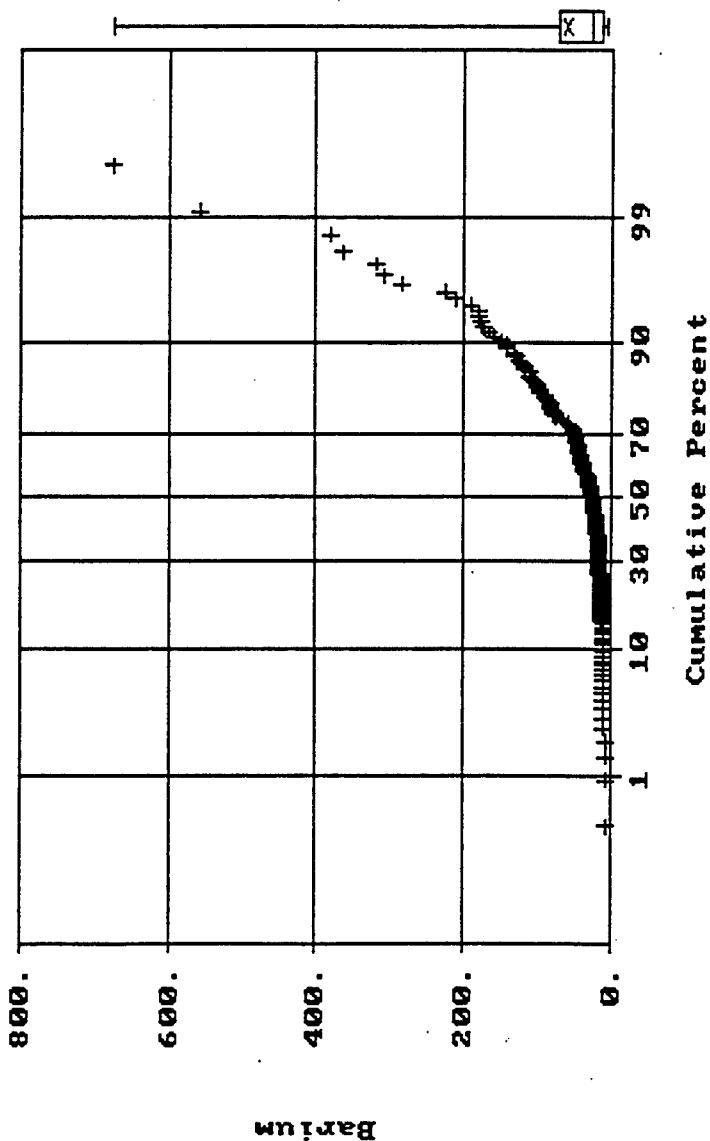
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	7.1817	Sed-Ba	Number of samples		Uncensored values		Sort data	
3	7.2821	Sed-Ba	Uncensored	171	Mean	60.765	Create report	
4	7.8676	Sed-Ba	Censored		Lognormal mean	55.660	Clear all	
5	7.89	Sed-Ba	Detection limit or PQL		Std. devn.	90.661	Histogram	
6	8.1174	Sed-Ba	Method detection limit		Median	26	5	10
7	9.1328	Sed-Ba	TOTAL	171	Min.	7.1817	20	
8	9.23	Sed-Ba	ENTER DATA		Max	673		
9	9.35	Sed-Ba	Distribution Decision					
10	9.403	Sed-Ba	Probability plot method		W test	D'Agostino's test		
11	9.5597	Sed-Ba	Lognormal distribution?		Normal distribution?			
12	9.77	Sed-Ba	r-squared is: 0.939		r-squared is: 0.566			
13	9.88	Sed-Ba	Recommendations:					
14	10.223	Sed-Ba	Assume lognormal distribution.					
15	10.3	Sed-Ba	Y value is -1.2622. This lies within the tabled values of -1.4537 and -2.4264					
16	10.3	Sed-Ba						
17	10.4459	Sed-Ba						
18	10.5208	Sed-Ba						
19	10.7853	Sed-Ba						
20	10.8	Sed-Ba						
21	10.8	Sed-Ba						
22	10.9	Sed-Ba	Upper Confidence Limit (UCL)					
23	10.9	Sed-Ba						
24	11	Sed-Ba						
25	11.2721	Sed-Ba						
26	11.317	Sed-Ba						
27	11.7647	Sed-Ba						
28	11.875	Sed-Ba						
29	11.934	Sed-Ba						
30	12.18	Sed-Ba						
31	12.8931	Sed-Ba						
32	13.083	Sed-Ba						
33	13.089	Sed-Ba						
34	13.1579	Sed-Ba						
35	13.1606	Sed-Ba						
36	13.239	Sed-Ba						
37	13.3	Sed-Ba						
38	14	Sed-Ba						
39	14.1	Sed-Ba						
40	14.397	Sed-Ba						
41	14.5218	Sed-Ba						
42	14.6	Sed-Ba						
43	14.7	Sed-Ba						
44	14.726	Sed-Ba						
45	14.8	Sed-Ba						
46	14.8958	Sed-Ba						
47	15.0685	Sed-Ba						
48	15.084	Sed-Ba						
49	15.2	Sed-Ba						
50	15.303	Sed-Ba						
51	15.348	Sed-Ba						
52	15.3931	Sed-Ba						
53	15.5	Sed-Ba						
54	16	Sed-Ba						
55	16.1	Sed-Ba						
56	16.2	Sed-Ba						
57	16.2134	Sed-Ba						
58	16.376	Sed-Ba						
59	16.9905	Sed-Ba						
60	17.0631	Sed-Ba						
61	17.1	Sed-Ba						
62	17.5	Sed-Ba						
63	17.5385	Sed-Ba						
64	17.7198	Sed-Ba						
65	18	Sed-Ba						
66	18.2	Sed-Ba						
67	18.5	Sed-Ba						

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Barium
Data file: sed-all.dat

S t a t i s t i c s

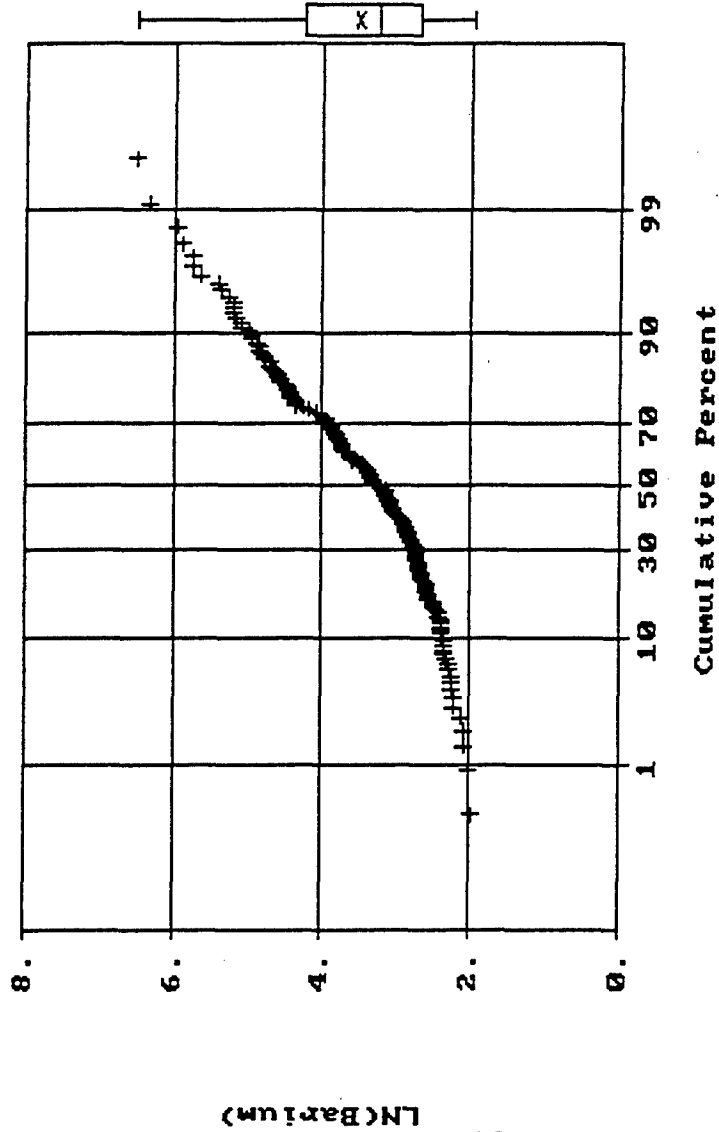
N Total :	259
N Miss :	88
N Used :	171
Mean :	60.765
Variance:	8219.330
Std. Dev:	90.661
% C.V. :	149.198
Skewness:	3.707
Kurtosis:	20.458
Minimum :	7.182
25th % :	14.719
Median :	26.000
75th % :	71.375
Maximum :	673.000



Normal Probability Plot for LN(Barium)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	3.496
Variance:	1.047
Std. Dev:	1.023
% C.V. :	29.275
Skewness:	.721
Kurtosis:	2.707
Minimum :	1.972
25th % :	2.689
Median :	3.258
75th % :	4.267
Maximum :	6.512



None

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASTat Site Module V2.0				Paste values	
2	0.1262	Sed-Be	Number of samples		Uncensored values		Sort data	
3	0.1295	Sed-Be	Uncensored	171	Mean	0.385	Create report	
4	0.1313	Sed-Be	Censored		Lognormal mean	0.375	Clear all	
5	0.1338	Sed-Be	Detection limit or PQL	-----	Std. devn.	0.287	Histogram	
6	0.1344	Sed-Be	Method detection limit		Median	0.25	5 10 20	
7	0.1351	Sed-Be	TOTAL	171	Min.	0.1262	Clear messages	
8	0.1355	Sed-Be	ENTER DATA		Max.	1.3505	Calculate UCL	
9	0.1488	Sed-Be	Distribution Decision				Lognormal	
10	0.1534	Sed-Be	Probability plot method		W test	D'Agostino's test	Normal	
11	0.1628	Sed-Be	Lognormal distribution?		Normal distribution?		Neither	
12	0.1646	Sed-Be	r-squared is: 0.852		r-squared is: 0.738		Sample size	
13	0.1661	Sed-Be	Recommendations:					
14	0.1696	Sed-Be	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.1703	Sed-Be						
16	0.1712	Sed-Be						
17	0.1716	Sed-Be						
18	0.1717	Sed-Be						
19	0.176	Sed-Be						
20	0.1762	Sed-Be						
21	0.1803	Sed-Be						
22	0.1906	Sed-Be						
23	0.193	Sed-Be						
24	0.1938	Sed-Be						
25	0.1943	Sed-Be						
26	0.1951	Sed-Be						
27	0.1982	Sed-Be						
28	0.2007	Sed-Be						
29	0.201	Sed-Be						
30	0.2015	Sed-Be						
31	0.2021	Sed-Be						
32	0.208	Sed-Be						
33	0.2086	Sed-Be						
34	0.2135	Sed-Be						
35	0.2135	Sed-Be						
36	0.2135	Sed-Be						
37	0.2135	Sed-Be						
38	0.2135	Sed-Be						
39	0.2135	Sed-Be						
40	0.2135	Sed-Be						
41	0.2135	Sed-Be						
42	0.2135	Sed-Be						
43	0.2135	Sed-Be						
44	0.2135	Sed-Be						
45	0.2135	Sed-Be						
46	0.2135	Sed-Be						
47	0.2135	Sed-Be						
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53	0.2135	Sed-Be						
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55	0.2135	Sed-Be						
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57	0.2135	Sed-Be						
58	0.2135	Sed-Be						
59	0.2135	Sed-Be						
60	0.2135	Sed-Be						
61	0.2135	Sed-Be						
62	0.2135	Sed-Be						
63	0.2135	Sed-Be						
64	0.2135	Sed-Be						
65	0.2135	Sed-Be						
66	0.2135	Sed-Be						
67	0.2135	Sed-Be						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.1262	Sed-Be	Number of samples		Uncensored values		Sort data	
3	0.1295	Sed-Be	Uncensored	171	Mean	0.385	Create report	
4	0.1313	Sed-Be	Censored		Lognormal mean	0.375	Clear all	
5	0.1338	Sed-Be	Detection limit or PQL	-----	Std. devn.	0.287	Histogram	
6	0.1344	Sed-Be	Method detection limit	-----	Median	0.25	5 10 20	
7	0.1351	Sed-Be	TOTAL	171	Min.	0.1262		
8	0.1355	Sed-Be	ENTER DATA		Max	1.3505		
9	0.1488	Sed-Be	Distribution Decision					
10	0.1534	Sed-Be	Probability plot method		W test	D'Agostino's test		
11	0.1628	Sed-Be	Lognormal distribution?		Normal distribution?			
12	0.1646	Sed-Be	r-squared is: 0.852		r-squared is: 0.738			
13	0.1661	Sed-Be	Recommendations:					
14	0.1696	Sed-Be	Reject lognormal distribution.					
15	0.1703	Sed-Be	Y value is -7.6046. This lies outside the tabled values of 1.4537 and -2.4264					
16	0.1712	Sed-Be	Reject normal distribution.					
17	0.1716	Sed-Be	Y value is -18.1098. This lies outside the tabled values of 1.4537 and -2.4264					
18	0.1717	Sed-Be	Upper Confidence Limit (UCL)					
19	0.176	Sed-Be						
20	0.1762	Sed-Be						
21	0.1803	Sed-Be						
22	0.1906	Sed-Be						
23	0.193	Sed-Be						
24	0.1938	Sed-Be						
25	0.1943	Sed-Be						
26	0.1951	Sed-Be						
27	0.1982	Sed-Be						
28	0.2007	Sed-Be						
29	0.201	Sed-Be						
30	0.2015	Sed-Be						
31	0.2021	Sed-Be						
32	0.208	Sed-Be						
33	0.2086	Sed-Be						
34	0.2135	Sed-Be						
35	0.2135	Sed-Be						
36	0.2135	Sed-Be						
37	0.2135	Sed-Be						
38	0.2135	Sed-Be						
39	0.2135	Sed-Be						
40	0.2135	Sed-Be						
41	0.2135	Sed-Be						
42	0.2135	Sed-Be						
43	0.2135	Sed-Be						
44	0.2135	Sed-Be						
45	0.2135	Sed-Be						
46	0.2135	Sed-Be						
47	0.2135	Sed-Be						
48	0.2135	Sed-Be						
49	0.2135	Sed-Be						
50	0.2135	Sed-Be						
51	0.2135	Sed-Be						
52	0.2135	Sed-Be						
53	0.2135	Sed-Be						
54	0.2135	Sed-Be						
55	0.2135	Sed-Be						
56	0.2135	Sed-Be						
57	0.2135	Sed-Be						
58	0.2135	Sed-Be						
59	0.2135	Sed-Be						
60	0.2135	Sed-Be						
61	0.2135	Sed-Be						
62	0.2135	Sed-Be						
63	0.2135	Sed-Be						
64	0.2135	Sed-Be						
65	0.2135	Sed-Be						
66	0.2135	Sed-Be						
67	0.2135	Sed-Be						

Calculate UCL

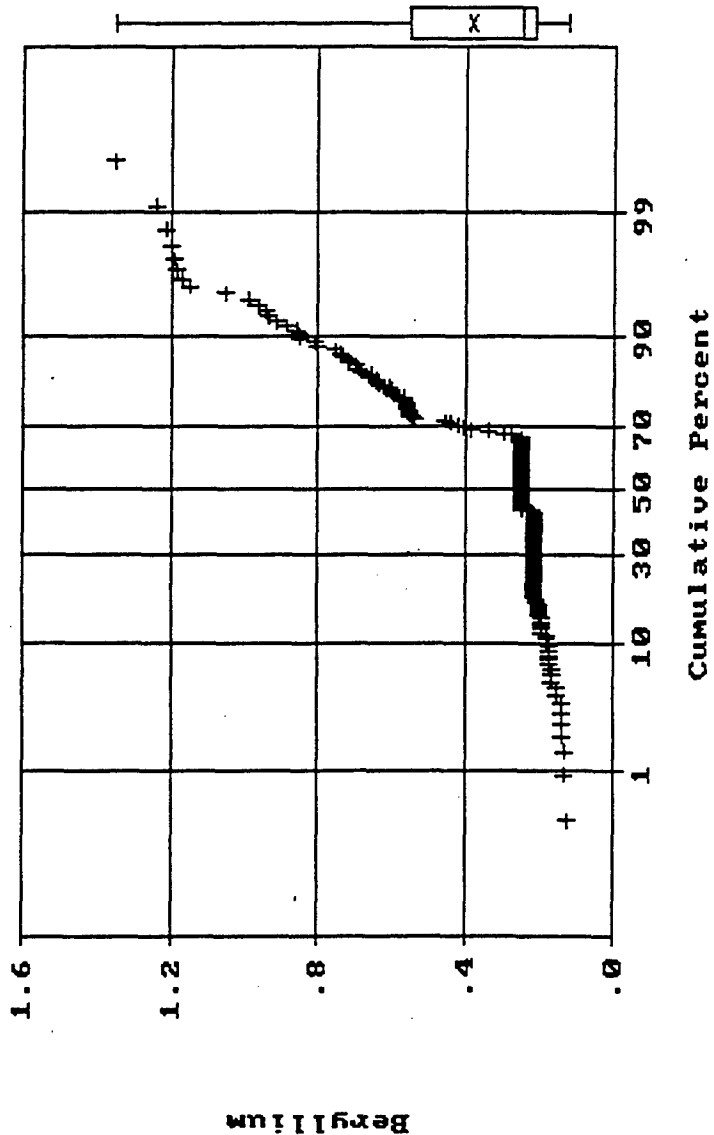
Lognormal

Normal

Neither

Sample size

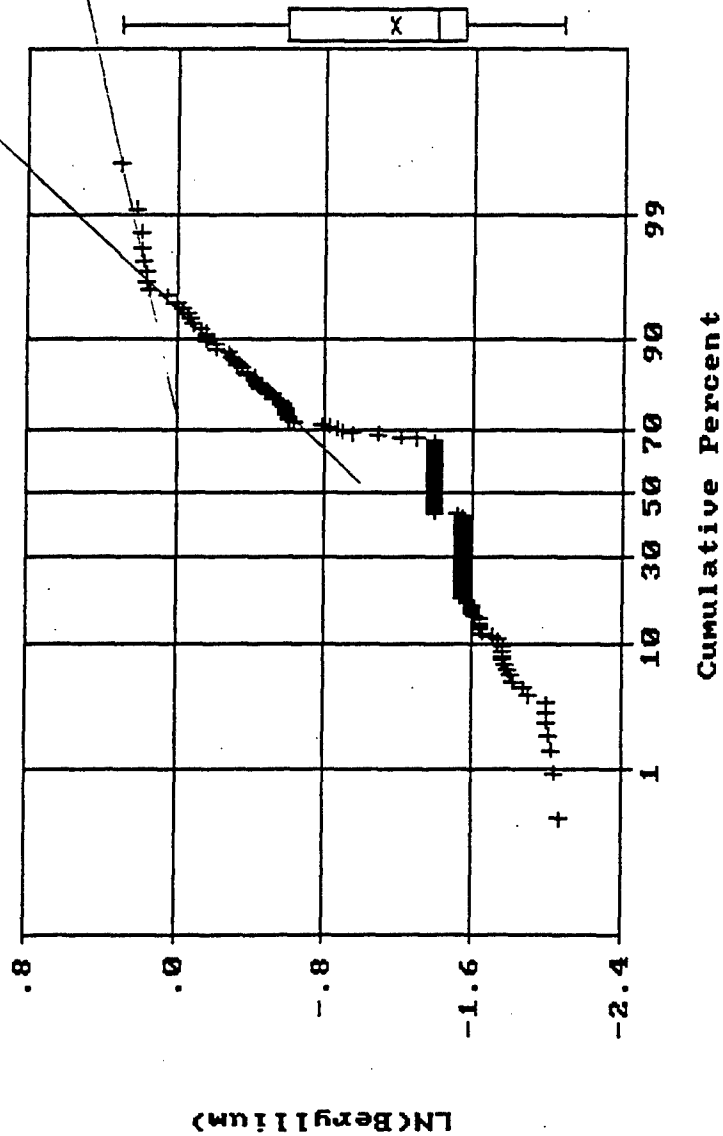
Normal Probability Plot for Beryllium
Data file: sed-all.dat



S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	.385
Variance:	.082
Std. Dev:	.287
% C.V. :	74.639
Skewness:	1.552
Kurtosis:	4.445
Minimum :	.126
25th % :	.213
Median :	.250
75th % :	.555
Maximum :	1.350

Normal Probability Plot for LN(Beryllium)
Data file: sed-all.dat



Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	-1.166
Variance :	.371
Std. Dev :	.609
% C.V. :	52.219
Skewness :	.870
Kurtosis :	2.480
Minimum :	-2.070
25th % :	-1.544
Median :	-1.386
75th % :	-.589
Maximum :	.300

e 0.2-1.2

Background data analysis

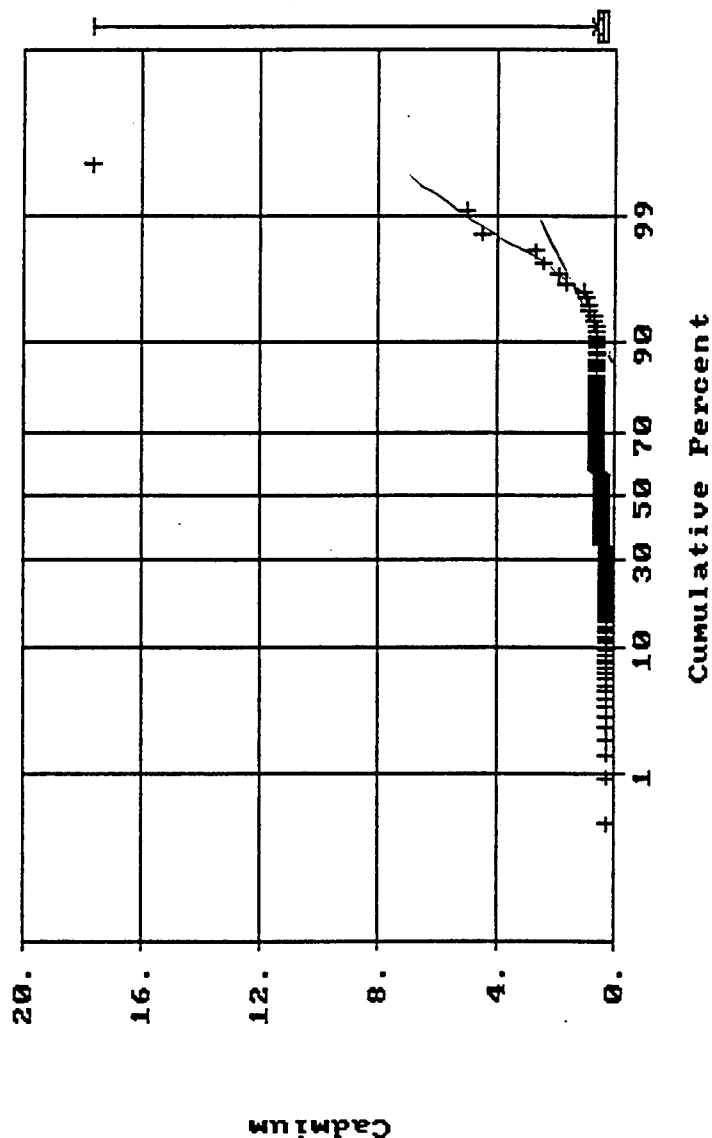
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	0.25	Sed-Cd	Number of samples		Uncensored values		Sort data	
3	0.25	Sed-Cd	Uncensored	171	Mean	0.628	Create report	
4	0.25	Sed-Cd	Censored		Lognormal mean	0.530	Clear all	
5	0.25	Sed-Cd	Detection limit or PQL		Std. devn.	1.419	Histogram	
6	0.25	Sed-Cd	Method detection limit		Median	0.4	5 10 20	
7	0.25	Sed-Cd	TOTAL	171	Min.	0.25		
8	0.25	Sed-Cd	ENTER DATA		Max	17.6	Clear messages	
9	0.2575	Sed-Cd	Distribution Decision				Calculate UCL	
10	0.2575	Sed-Cd	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.2575	Sed-Cd	Lognormal distribution?		Normal distribution?		Normal	
12	0.2575	Sed-Cd	r-squared is: 0.731		r-squared is: 0.177		Neither	
13	0.2575	Sed-Cd	Recommendations				Sample size	
14	0.2575	Sed-Cd	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.2575	Sed-Cd						
16	0.2575	Sed-Cd						
17	0.2575	Sed-Cd						
18	0.2575	Sed-Cd						
19	0.2575	Sed-Cd						
20	0.2575	Sed-Cd						
21	0.2575	Sed-Cd						
22	0.2575	Sed-Cd						
23	0.2575	Sed-Cd						
24	0.2575	Sed-Cd						
25	0.2575	Sed-Cd						
26	0.2575	Sed-Cd						
27	0.2575	Sed-Cd						
28	0.2575	Sed-Cd						
29	0.2575	Sed-Cd						
30	0.2575	Sed-Cd						
31	0.2575	Sed-Cd						
32	0.2575	Sed-Cd						
33	0.2575	Sed-Cd						
34	0.2575	Sed-Cd						
35	0.2575	Sed-Cd						
36	0.2575	Sed-Cd						
37	0.2575	Sed-Cd						
38	0.2575	Sed-Cd						
39	0.2575	Sed-Cd						
40	0.2575	Sed-Cd						
41	0.2575	Sed-Cd						
42	0.2575	Sed-Cd						
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44	0.2575	Sed-Cd						
45	0.2575	Sed-Cd						
46	0.2575	Sed-Cd						
47	0.2575	Sed-Cd						
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49	0.2575	Sed-Cd						
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51	0.2575	Sed-Cd						
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54	0.2575	Sed-Cd						
55	0.2575	Sed-Cd						
56	0.2575	Sed-Cd						
57	0.2575	Sed-Cd						
58	0.2575	Sed-Cd						
59	0.2575	Sed-Cd						
60	0.4	Sed-Cd						
61	0.4	Sed-Cd						
62	0.4	Sed-Cd						
63	0.4	Sed-Cd						
64	0.4	Sed-Cd						
65	0.4	Sed-Cd						
66	0.4	Sed-Cd						
67	0.4	Sed-Cd						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.25	Sed-Cd	Number of samples		Uncensored values		Sort data	
3	0.25	Sed-Cd	Uncensored	171	Mean	0.628	Create report	
4	0.25	Sed-Cd	Censored		Lognormal mean	0.530	Clear all	
5	0.25	Sed-Cd	Detection limit or PQL	-----	Std. devn.	1.419	Histogram	
6	0.25	Sed-Cd	Method detection limit	-----	Median	0.4	5 10 20	
7	0.25	Sed-Cd	TOTAL	171	Min.	0.25		
8	0.25	Sed-Cd	ENTER DATA		Max	17.6		
9	0.2575	Sed-Cd	Distribution Decision					
10	0.2575	Sed-Cd	Probability plot method		W test	D'Agostino's test		
11	0.2575	Sed-Cd	Lognormal distribution?		Normal distribution?			
12	0.2575	Sed-Cd	r-squared is: 0.731		r-squared is: 0.177			
13	0.2575	Sed-Cd	Recommendations:					
14	0.2575	Sed-Cd	Reject lognormal distribution.					
15	0.2575	Sed-Cd	Y value is -20.2147. This lies outside the tabled values of 1.4537 and -2.4264					
16	0.2575	Sed-Cd	Reject normal distribution.					
17	0.2575	Sed-Cd	Y value is -81.5642. This lies outside the tabled values of 1.4537 and -2.4264					
18	0.2575	Sed-Cd	Upper Confidence Limit (UCL)					
19	0.2575	Sed-Cd						
20	0.2575	Sed-Cd						
21	0.2575	Sed-Cd						
22	0.2575	Sed-Cd						
23	0.2575	Sed-Cd						
24	0.2575	Sed-Cd						
25	0.2575	Sed-Cd						
26	0.2575	Sed-Cd						
27	0.2575	Sed-Cd						
28	0.2575	Sed-Cd						
29	0.2575	Sed-Cd						
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38	0.2575	Sed-Cd						
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41	0.2575	Sed-Cd						
42	0.2575	Sed-Cd						
43	0.2575	Sed-Cd						
44	0.2575	Sed-Cd						
45	0.2575	Sed-Cd						
46	0.2575	Sed-Cd						
47	0.2575	Sed-Cd						
48	0.2575	Sed-Cd						
49	0.2575	Sed-Cd						
50	0.2575	Sed-Cd						
51	0.2575	Sed-Cd						
52	0.2575	Sed-Cd						
53	0.2575	Sed-Cd						
54	0.2575	Sed-Cd						
55	0.2575	Sed-Cd						
56	0.2575	Sed-Cd						
57	0.2575	Sed-Cd						
58	0.2575	Sed-Cd						
59	0.2575	Sed-Cd						
60	0.4	Sed-Cd						
61	0.4	Sed-Cd						
62	0.4	Sed-Cd						
63	0.4	Sed-Cd						
64	0.4	Sed-Cd						
65	0.4	Sed-Cd						
66	0.4	Sed-Cd						
67	0.4	Sed-Cd						

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cadmium
Data file: sed-all.dat



S t a t i s t i c s

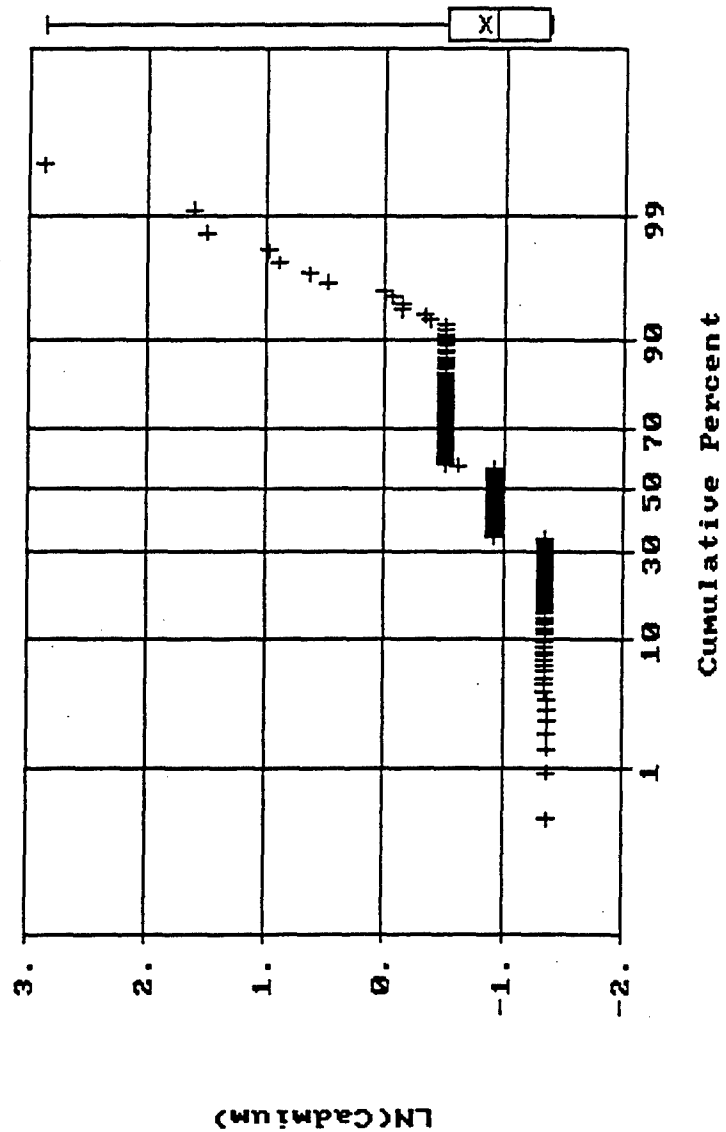
N Total :	259
N Miss :	88
N Used :	171
Mean :	.628
Variance:	2.015
Std. Dev:	1.419
% C.V. :	226.025
Skewness:	10.404
Kurtosis:	121.833
Minimum :	.250
25th % :	.257
Median :	.400
75th % :	.600
Maximum :	17.600

ALL DETECTS

Normal Probability Plot for LN(Cadmium)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	-.812
Variance :	.355
Std. Dev :	.596
% C.V. :	73.410
Skewness :	2.396
Kurtosis :	13.100
Minimum :	-1.386
25th % :	-1.357
Median :	-.916
75th % :	-.511
Maximum :	2.868



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Sed-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Sed-CN	Uncensored	49	Mean	0.257	Create report	
4	0.125	Sed-CN	Censored		Lognormal mean	0.256	Clear all	
5	0.125	Sed-CN	Detection limit or PQL		Std. devn.	0.166	Histogram	
6	0.125	Sed-CN	Method detection limit		Median	0.125	5	10
7	0.125	Sed-CN	TOTAL	49	Min.	0.125	20	
8	0.125	Sed-CN	ENTER DATA		Max.	0.811	Clear messages	
9	0.125	Sed-CN	Distribution Decision				Calculate UCL	
10	0.125	Sed-CN	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.125	Sed-CN	Lognormal distribution?		Normal distribution?		Normal	
12	0.125	Sed-CN	r-squared is: 0.758		r-squared is: 0.757		Neither	
13	0.125	Sed-CN	Recommendations:					
14	0.125	Sed-CN	Reject lognormal distribution.					
15	0.125	Sed-CN	W value is 0.7393. This is less than the table value of 0.947					
16	0.125	Sed-CN	Reject normal distribution.					
17	0.125	Sed-CN	W value is 0.7547. This is less than the table value of 0.947					
18	0.125	Sed-CN	Upper Confidence Limit (UCL)					
19	0.125	Sed-CN						
20	0.125	Sed-CN						
21	0.125	Sed-CN						
22	0.125	Sed-CN						
23	0.125	Sed-CN						
24	0.125	Sed-CN						
25	0.125	Sed-CN						
26	0.125	Sed-CN						
27	0.125	Sed-CN						
28	0.2	Sed-CN						
29	0.2	Sed-CN						
30	0.2	Sed-CN						
31	0.3361	Sed-CN						
32	0.3452	Sed-CN						
33	0.3564	Sed-CN						
34	0.3654	Sed-CN						
35	0.406	Sed-CN						
36	0.4145	Sed-CN						
37	0.4145	Sed-CN						
38	0.4145	Sed-CN						
39	0.4145	Sed-CN						
40	0.4145	Sed-CN						
41	0.4145	Sed-CN						
42	0.4145	Sed-CN						
43	0.4145	Sed-CN						
44	0.4145	Sed-CN						
45	0.4145	Sed-CN						
46	0.4145	Sed-CN						
47	0.46	Sed-CN						
48	0.5088	Sed-CN						
49	0.5967	Sed-CN						
50	0.811	Sed-CN						
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Background data analysis

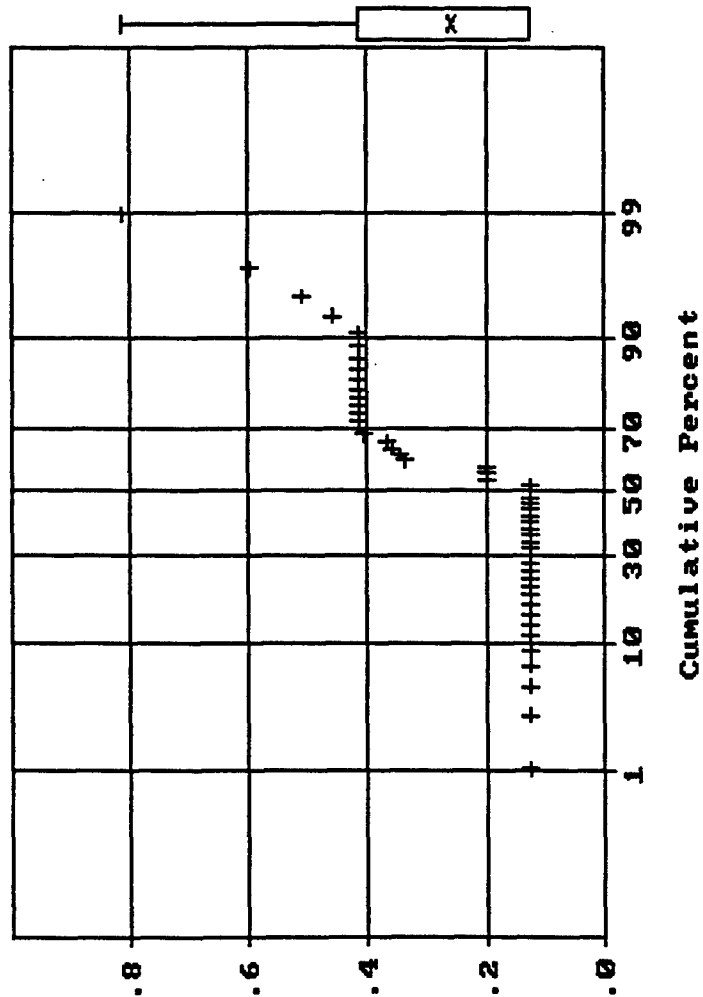
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Sed-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Sed-CN	Uncensored	49	Mean	0.257	Create report	
4	0.125	Sed-CN	Censored		Lognormal mean	0.256	Clear all	
5	0.125	Sed-CN	Detection limit or PQL	-----	Std. devn.	0.186	Histogram	
6	0.125	Sed-CN	Method detection limit	-----	Median	0.125	5 10 20	
7	0.125	Sed-CN	TOTAL	49	Min.	0.125		
8	0.125	Sed-CN	ENTER DATA		Max.	0.811		
9	0.125	Sed-CN	Distribution Decision					
10	0.125	Sed-CN	Probability plot method		W test	D'Agostino's test		
11	0.125	Sed-CN	Lognormal distribution?		Normal distribution?			
12	0.125	Sed-CN	r-squared is: 0.758		r-squared is: 0.757			
13	0.125	Sed-CN	Recommendations:					
14	0.125	Sed-CN	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.125	Sed-CN						
16	0.125	Sed-CN						
17	0.125	Sed-CN						
18	0.125	Sed-CN						
19	0.125	Sed-CN						
20	0.125	Sed-CN						
21	0.125	Sed-CN						
22	0.125	Sed-CN	Upper Confidence Limit (UCL)					
23	0.125	Sed-CN						
24	0.125	Sed-CN						
25	0.125	Sed-CN						
26	0.125	Sed-CN						
27	0.125	Sed-CN						
28	0.2	Sed-CN						
29	0.2	Sed-CN						
30	0.2	Sed-CN						
31	0.3361	Sed-CN						
32	0.3452	Sed-CN						
33	0.3564	Sed-CN						
34	0.3654	Sed-CN						
35	0.406	Sed-CN						
36	0.4145	Sed-CN						
37	0.4145	Sed-CN						
38	0.4145	Sed-CN						
39	0.4145	Sed-CN						
40	0.4145	Sed-CN						
41	0.4145	Sed-CN						
42	0.4145	Sed-CN						
43	0.4145	Sed-CN						
44	0.4145	Sed-CN						
45	0.4145	Sed-CN						
46	0.4145	Sed-CN						
47	0.46	Sed-CN						
48	0.5088	Sed-CN						
49	0.5967	Sed-CN						
50	0.811	Sed-CN						
51								
52								
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62								
63								
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65								
66								
67								

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cyanide
Data file: sed-all.dat

S t a t i s t i c s

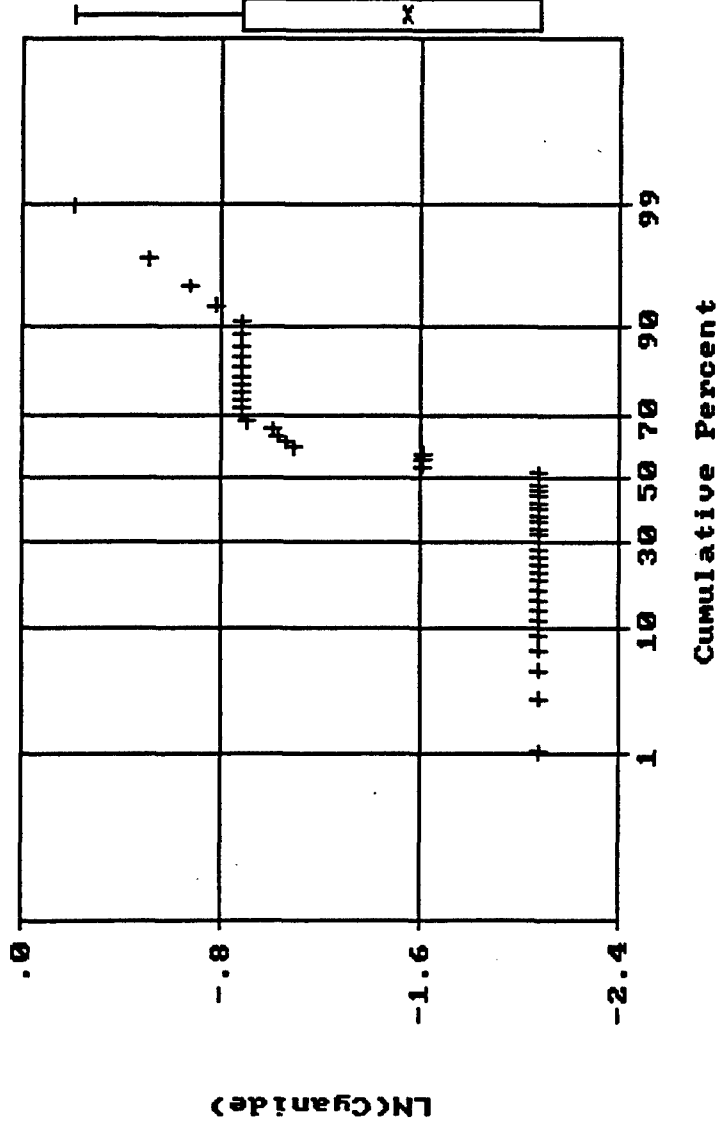
N Total :	259
N Miss :	210
N Used :	49
Mean :	.257
Variance:	.028
Std. Dev:	.166
% C.V. :	64.526
Skewness:	1.028
Kurtosis:	3.617
Minimum :	.125
25th % :	.125
Median :	.125
75th % :	.414
Maximum :	.811



Normal Probability Plot for LN(Cyanide)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	210
N Used :	49
Mean :	-1.548
Variance:	.373
Std. Dev:	.610
% C.V. :	39.434
Skewness:	.441
Kurtosis:	1.526
Minimum :	-2.079
25th % :	-2.079
Median :	-2.079
75th % :	-.881
Maximum :	-.209



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3.35	Sed-Co	Number of samples 171				Sort data	
3	3.6874	Sed-Co	Uncensored values				Create report	
4	3.8662	Sed-Co	Uncensored	171	Mean	14.895	Clear all	
5	3.9005	Sed-Co	Censored		Lognormal mean	14.291	Histogram	
6	3.9895	Sed-Co	Detection limit or PQL	-----	Std. devn.	14.857	5 10 20	
7	4.198	Sed-Co	Method detection limit		Median	9.7564	Clear messages	
8	4.3418	Sed-Co	TOTAL	171	Min.	3.35	Calculate UCL	
9	4.3487	Sed-Co	ENTER DATA		Max.	109	Lognormal	
10	4.4328	Sed-Co	Distribution Decision				Normal	
11	4.45	Sed-Co	Probability plot method				Neither	
12	4.7468	Sed-Co	W test				Sample size	
13	4.9057	Sed-Co	D'Agoetino's test					
14	4.9479	Sed-Co	Lognormal distribution?					
15	5.07	Sed-Co	Normal distribution?					
16	5.36	Sed-Co	r-squared is: 0.957					
17	5.495	Sed-Co	r-squared is: 0.623					
18	5.549	Sed-Co	Recommendations					
19	5.5739	Sed-Co	Use lognormal distribution.					
20	5.579	Sed-Co						
21	5.6	Sed-Co						
22	5.7159	Sed-Co	Upper Confidence Limit (UCL)					
23	5.7263	Sed-Co						
24	5.7652	Sed-Co						
25	5.7671	Sed-Co						
26	5.77	Sed-Co						
27	5.8359	Sed-Co						
28	5.8779	Sed-Co						
29	5.955	Sed-Co						
30	5.973	Sed-Co						
31	6.002	Sed-Co						
32	6.0687	Sed-Co						
33	6.0754	Sed-Co						
34	6.09	Sed-Co						
35	6.236	Sed-Co						
36	6.254	Sed-Co						
37	6.318	Sed-Co						
38	6.4601	Sed-Co						
39	6.47	Sed-Co						
40	6.4825	Sed-Co						
41	6.5305	Sed-Co						
42	6.615	Sed-Co						
43	6.7364	Sed-Co						
44	6.739	Sed-Co						
45	6.79	Sed-Co						
46	6.8678	Sed-Co						
47	6.993	Sed-Co						
48	7.064	Sed-Co						
49	7.07	Sed-Co						
50	7.08	Sed-Co						
51	7.1192	Sed-Co						
52	7.1443	Sed-Co						
53	7.1639	Sed-Co						
54	7.2396	Sed-Co						
55	7.32	Sed-Co						
56	7.339	Sed-Co						
57	7.4	Sed-Co						
58	7.57	Sed-Co						
59	7.6667	Sed-Co						
60	7.98	Sed-Co						
61	8.132	Sed-Co						
62	8.16	Sed-Co						
63	8.38	Sed-Co						
64	8.381	Sed-Co						
65	8.4398	Sed-Co						
66	8.47	Sed-Co						
67	8.48	Sed-Co						

Background data analysis

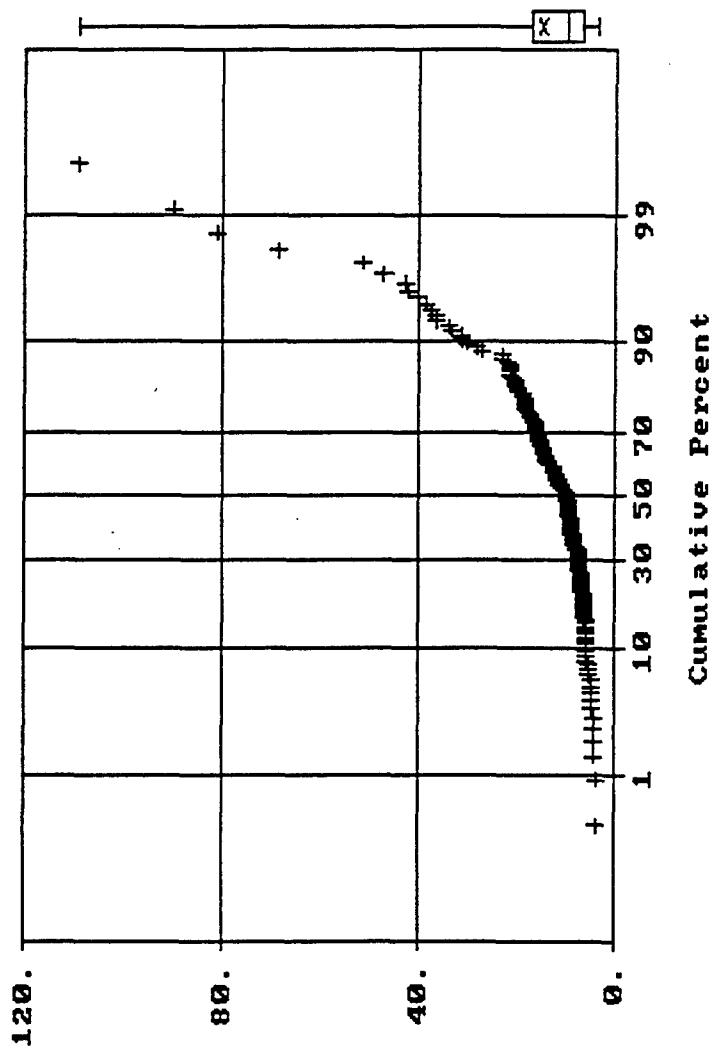
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3.35	Sed-Co	Number of samples		Uncensored values		Sort data	
3	3.6874	Sed-Co	Uncensored	171	Mean	14.895	Create report	
4	3.8662	Sed-Co	Censored		Lognormal mean	14.291	Clear all	
5	3.9005	Sed-Co	Detection limit or PQL		Std. devn.	14.657	Histogram	
6	3.9895	Sed-Co	Method detection limit		Median	9.7564	5 10 20	
7	4.198	Sed-Co	TOTAL	171	Min.	3.35		
8	4.3418	Sed-Co	ENTER DATA		Max.	109		
9	4.3487	Sed-Co	Distribution Decision					
10	4.4328	Sed-Co	Probability plot method		W test	D'Agostino's test		
11	4.45	Sed-Co	Lognormal distribution?		Normal distribution?			
12	4.7468	Sed-Co	r-squared is: 0.957		r-squared is: 0.623			
13	4.9057	Sed-Co	Recommendations					
14	4.9479	Sed-Co	Assume lognormal distribution.					
15	5.07	Sed-Co	Y value is -2.3228. This lies within the tabled values of: 1.4537 and -2.4264					
16	5.36	Sed-Co						
17	5.495	Sed-Co						
18	5.549	Sed-Co						
19	5.5739	Sed-Co						
20	5.579	Sed-Co						
21	5.6	Sed-Co						
22	5.7159	Sed-Co	Upper Confidence Limit (UCL)					
23	5.7263	Sed-Co						
24	5.7652	Sed-Co						
25	5.7671	Sed-Co						
26	5.77	Sed-Co						
27	5.8359	Sed-Co						
28	5.8779	Sed-Co						
29	5.955	Sed-Co						
30	5.973	Sed-Co						
31	6.002	Sed-Co						
32	6.0687	Sed-Co						
33	6.0754	Sed-Co						
34	6.09	Sed-Co						
35	6.236	Sed-Co						
36	6.254	Sed-Co						
37	6.318	Sed-Co						
38	6.4601	Sed-Co						
39	6.47	Sed-Co						
40	6.4825	Sed-Co						
41	6.5305	Sed-Co						
42	6.615	Sed-Co						
43	6.7364	Sed-Co						
44	6.739	Sed-Co						
45	6.79	Sed-Co						
46	6.8678	Sed-Co						
47	6.993	Sed-Co						
48	7.064	Sed-Co						
49	7.07	Sed-Co						
50	7.08	Sed-Co						
51	7.1192	Sed-Co						
52	7.1443	Sed-Co						
53	7.1639	Sed-Co						
54	7.2396	Sed-Co						
55	7.32	Sed-Co						
56	7.339	Sed-Co						
57	7.4	Sed-Co						
58	7.57	Sed-Co						
59	7.6667	Sed-Co						
60	7.98	Sed-Co						
61	8.132	Sed-Co						
62	8.16	Sed-Co						
63	8.38	Sed-Co						
64	8.381	Sed-Co						
65	8.4398	Sed-Co						
66	8.47	Sed-Co						
67	8.48	Sed-Co						

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cobalt
Data file: sed-all.dat

Statistics

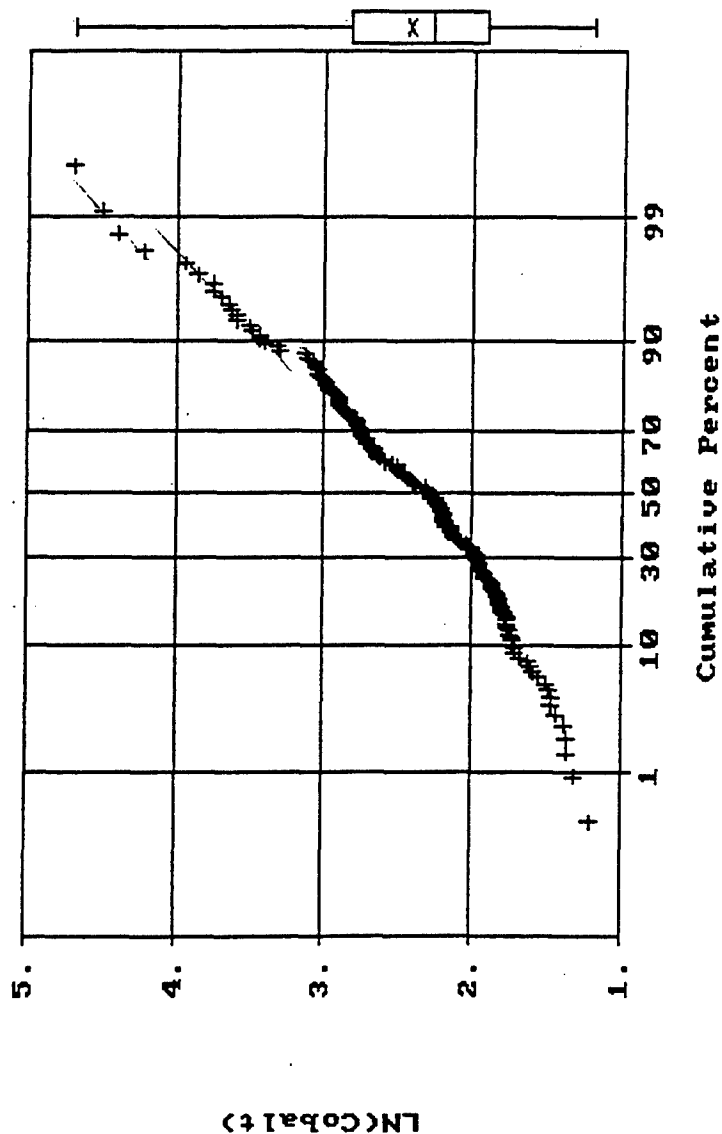
N Total :	259
N Miss :	88
N Used :	171
Mean :	14.895
Variance :	214.839
Std. Dev :	14.657
% C.V. :	98.484
Skewness :	3.486
Kurtosis :	18.424
Minimum :	3.350
25th % :	6.738
Median :	9.756
75th % :	16.950
Maximum :	109.000



Normal Probability Plot for LN(Cobalt)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	2.431
Variance:	.458
Std. Dev:	.676
% C.V. :	27.828
Skewness:	.785
Kurtosis:	3.512
Minimum :	1.209
25th % :	1.908
Median :	2.278
75th % :	2.830
Maximum :	4.691



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.147	Sed-Cr	Number of samples		Uncensored values		Sort data	
3	17.906	Sed-Cr	Uncensored	171	Mean	92.966	Create report	
4	19.906	Sed-Cr	Censored		Lognormal mean	86.706	Clear all	
5	20.718	Sed-Cr	Detection limit or PQL		Std. devn.	115.103	Histogram	
6	21.125	Sed-Cr	Method detection limit		Median	60.3141	5	10
7	23.069	Sed-Cr	TOTAL	171	Min.	11.1465	20	
8	25.157	Sed-Cr	ENTER DATA		Max.	1040		
9	26.576	Sed-Cr	Distribution Decision					
10	26.923	Sed-Cr	Probability plot method		W test	D'Agoetino's test		
11	27.5	Sed-Cr	Lognormal distribution?		Normal distribution?			
12	27.708	Sed-Cr	r-squared is: 0.950		r-squared is: 0.503			
13	27.8	Sed-Cr	Recommendations					
14	27.924	Sed-Cr	Use lognormal distribution.					
15	28.316	Sed-Cr						
16	28.383	Sed-Cr						
17	28.8	Sed-Cr						
18	29	Sed-Cr						
19	29.9	Sed-Cr						
20	30.2	Sed-Cr						
21	31.303	Sed-Cr	Upper Confidence Limit (UCL)					
22	32.646	Sed-Cr						
23	32.85	Sed-Cr						
24	34.754	Sed-Cr						
25	35.017	Sed-Cr						
26	35.2	Sed-Cr						
27	35.264	Sed-Cr						
28	35.332	Sed-Cr						
29	35.561	Sed-Cr						
30	36.7	Sed-Cr						
31	36.8	Sed-Cr						
32	36.855	Sed-Cr						
33	36.897	Sed-Cr						
34	37	Sed-Cr						
35	37.717	Sed-Cr						
36	38.383	Sed-Cr						
37	38.4	Sed-Cr						
38	39.065	Sed-Cr						
39	39.2	Sed-Cr						
40	39.46	Sed-Cr						
41	40.4	Sed-Cr						
42	40.6	Sed-Cr						
43	40.8	Sed-Cr						
44	41.4	Sed-Cr						
45	41.527	Sed-Cr						
46	42	Sed-Cr						
47	42.1	Sed-Cr						
48	43.285	Sed-Cr						
49	43.833	Sed-Cr						
50	44.045	Sed-Cr						
51	44.1	Sed-Cr						
52	44.4	Sed-Cr						
53	44.7	Sed-Cr						
54	44.8	Sed-Cr						
55	45.333	Sed-Cr						
56	46.154	Sed-Cr						
57	46.239	Sed-Cr						
58	46.268	Sed-Cr						
59	46.3	Sed-Cr						
60	46.5	Sed-Cr						
61	46.528	Sed-Cr						
62	46.6	Sed-Cr						
63	46.657	Sed-Cr						
64	48.203	Sed-Cr						
65	48.369	Sed-Cr						
66	49.475	Sed-Cr						
67	49.7	Sed-Cr						

Calculate UCL

Lognormal

Normal

Neither

Sample size

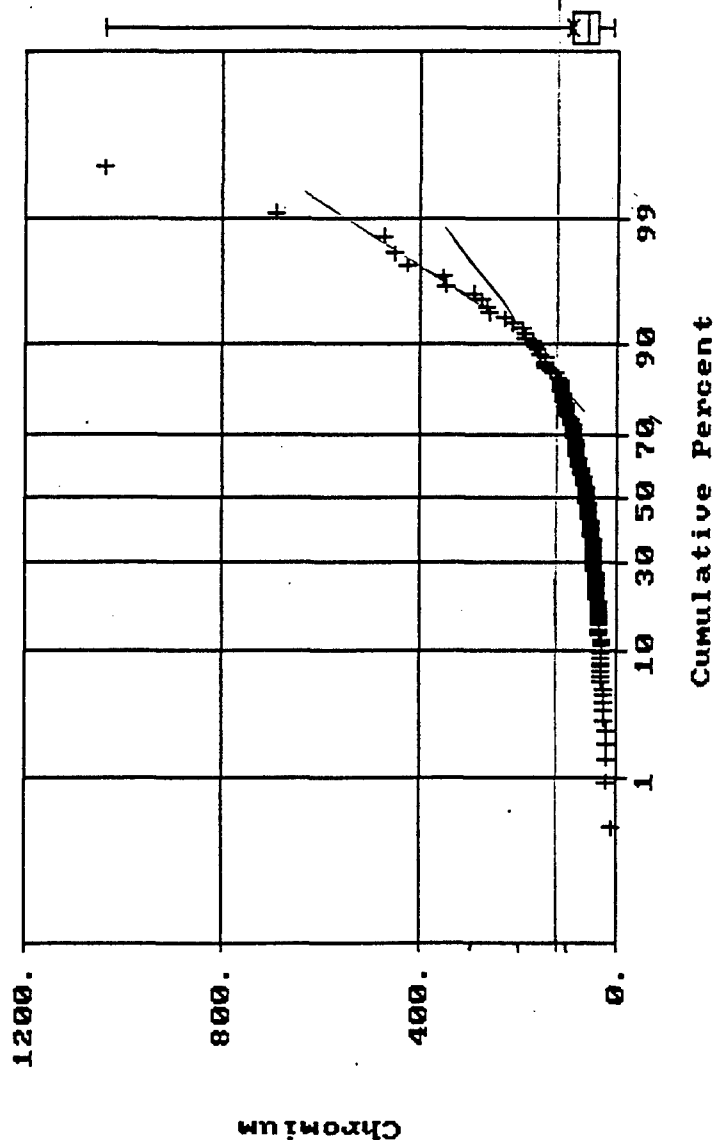
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.1465	Sed-Cr	Number of samples		Uncensored values		Sort data	
3	17.9058	Sed-Cr	Uncensored	171	Mean	92.966	Create report	
4	19.9058	Sed-Cr	Censored		Lognormal mean	86.706	Clear all	
5	20.7179	Sed-Cr	Detection limit or PQL	-----	Std. devn.	115.103	Histogram	
6	21.1253	Sed-Cr	Method detection limit	-----	Median	60.3141	5 10 20	
7	23.0686	Sed-Cr	TOTAL	171	Min.	11.1465		
8	25.1572	Sed-Cr	ENTER DATA		Max.	1040		
9	26.5756	Sed-Cr	Distribution Decision					
10	26.9231	Sed-Cr	Probability plot method		W test	D'Agostino's test		
11	27.5	Sed-Cr	Lognormal distribution?		Normal distribution?			
12	27.7083	Sed-Cr	r-squared is: 0.950		r-squared is: 0.503			
13	27.8	Sed-Cr	Recommendations.					
14	27.9236	Sed-Cr	Reject lognormal distribution.					
15	28.3158	Sed-Cr	Y value is -5.0119. This lies outside the tabled values of 1.4537 and -2.4264					
16	28.383	Sed-Cr	Reject normal distribution.					
17	28.8	Sed-Cr	Y value is -44.3125. This lies outside the tabled values of 1.4537 and -2.4264					
18	29	Sed-Cr	Upper Confidence Limit (UCL)					
19	29.9	Sed-Cr						
20	30.2	Sed-Cr						
21	31.3025	Sed-Cr						
22	32.646	Sed-Cr						
23	32.8497	Sed-Cr						
24	34.754	Sed-Cr						
25	35.017	Sed-Cr						
26	35.2	Sed-Cr						
27	35.2637	Sed-Cr						
28	35.3319	Sed-Cr						
29	35.561	Sed-Cr						
30	36.7	Sed-Cr						
31	36.8	Sed-Cr						
32	36.855	Sed-Cr						
33	36.8973	Sed-Cr						
34	37	Sed-Cr						
35	37.7166	Sed-Cr						
36	38.3825	Sed-Cr						
37	38.4	Sed-Cr						
38	39.065	Sed-Cr						
39	39.2	Sed-Cr						
40	39.46	Sed-Cr						
41	40.4	Sed-Cr						
42	40.6	Sed-Cr						
43	40.8	Sed-Cr						
44	41.4	Sed-Cr						
45	41.5272	Sed-Cr						
46	42	Sed-Cr						
47	42.1	Sed-Cr						
48	43.285	Sed-Cr						
49	43.8326	Sed-Cr						
50	44.045	Sed-Cr						
51	44.1	Sed-Cr						
52	44.4	Sed-Cr						
53	44.7	Sed-Cr						
54	44.8	Sed-Cr						
55	45.3333	Sed-Cr						
56	46.1538	Sed-Cr						
57	46.2389	Sed-Cr						
58	46.268	Sed-Cr						
59	46.3	Sed-Cr						
60	46.5	Sed-Cr						
61	46.528	Sed-Cr						
62	46.6	Sed-Cr						
63	46.6565	Sed-Cr						
64	48.2032	Sed-Cr						
65	48.3685	Sed-Cr						
66	49.4748	Sed-Cr						
67	49.7	Sed-Cr						

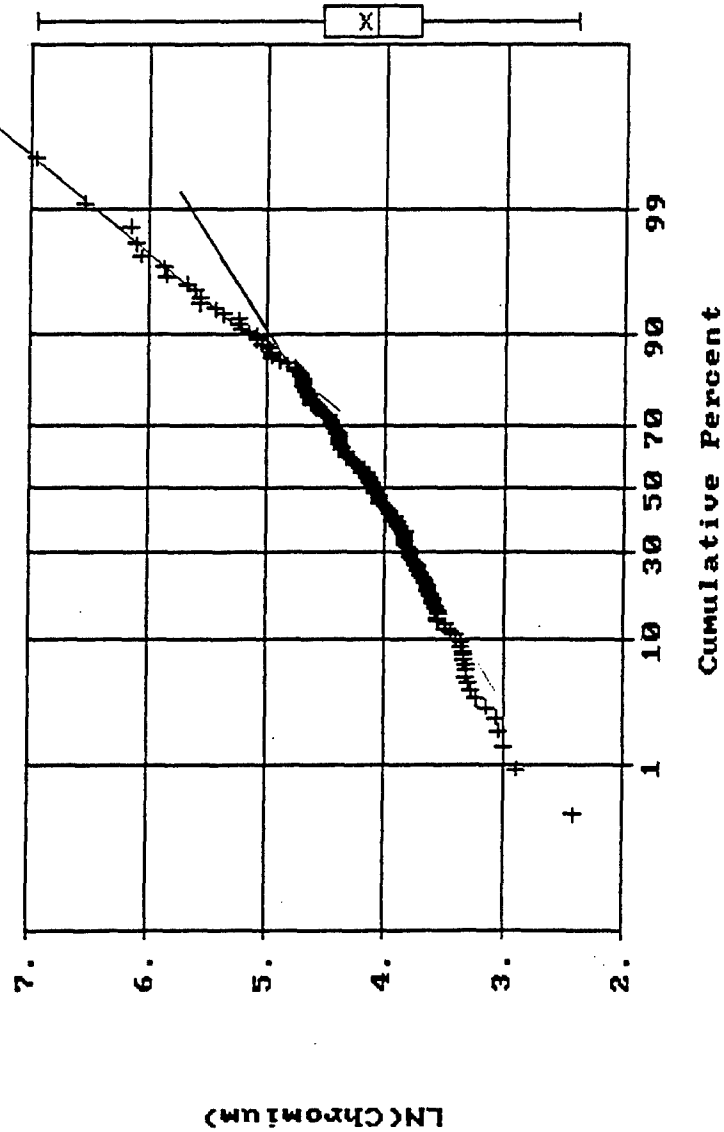
Normal Probability Plot for Chromium
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	92.966
Variance:	13248.700
Std. Dev:	115.103
% C.V. :	123.812
Skewness:	4.839
Kurtosis:	33.539
Minimum :	11.146
25th % :	41.250
Median :	60.314
75th % :	94.307
Maximum :	1040.000



Normal Probability Plot for LN(Chromium)
Data file: sed-all.dat



Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	4.204
Variance:	.517
Std. Dev:	.719
% C.V. :	17.102
Skewness:	.925
Kurtosis:	4.448
Minimum :	2.411
25th % :	3.720
Median :	4.100
75th % :	4.546
Maximum :	6.947

$e^{4.8} = 121$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.42	Sed-Cu	Number of samples		Uncensored values		Sort data	
3	1.42	Sed-Cu	Uncensored	171	Mean	25.673	Create report	
4	1.42	Sed-Cu	Censored	-----	Lognormal mean	23.441	Clear all	
5	1.42	Sed-Cu	Detection limit or PQL	-----	Std. devn.	54.303	Histogram	
6	1.42	Sed-Cu	Method detection limit	-----	Median	13.626	5	10
7	1.42	Sed-Cu	TOTAL	171	Min.	1.42	20	
8	1.42	Sed-Cu	ENTER DATA		Max	455.194		
9	1.42	Sed-Cu	Distribution Decision					
10	1.42	Sed-Cu	Probability plot method		W test	D'Agostino's test		
11	1.42	Sed-Cu	Lognormal distribution?		Normal distribution?			
12	1.42	Sed-Cu	r-squared is: 0.962		r-squared is: 0.351			
13	1.42	Sed-Cu	Recommendations				Clear messages	
14	1.42	Sed-Cu	Use lognormal distribution.					
15	1.42	Sed-Cu					Calculate UCL	
16	1.42	Sed-Cu					Lognormal	
17	1.42	Sed-Cu					Normal	
18	3.1237	Sed-Cu					Neither	
19	3.1599	Sed-Cu					Sample size	
20	3.805	Sed-Cu						
21	3.9282	Sed-Cu						
22	4.534	Sed-Cu						
23	4.5538	Sed-Cu						
24	4.6	Sed-Cu						
25	4.6795	Sed-Cu						
26	4.75	Sed-Cu						
27	4.837	Sed-Cu						
28	4.84	Sed-Cu						
29	4.8475	Sed-Cu						
30	4.95	Sed-Cu						
31	5	Sed-Cu						
32	5.039	Sed-Cu						
33	5.2066	Sed-Cu						
34	5.232	Sed-Cu						
35	5.28	Sed-Cu						
36	5.521	Sed-Cu						
37	5.61	Sed-Cu						
38	5.92	Sed-Cu						
39	5.954	Sed-Cu						
40	6.22	Sed-Cu						
41	6.294	Sed-Cu						
42	6.39	Sed-Cu						
43	6.42	Sed-Cu						
44	6.657	Sed-Cu						
45	6.9759	Sed-Cu						
46	7.21	Sed-Cu						
47	7.219	Sed-Cu						
48	7.29	Sed-Cu						
49	7.29	Sed-Cu						
50	7.295	Sed-Cu						
51	7.57	Sed-Cu						
52	7.9938	Sed-Cu						
53	8	Sed-Cu						
54	8.323	Sed-Cu						
55	8.433	Sed-Cu						
56	8.4519	Sed-Cu						
57	8.56	Sed-Cu						
58	8.585	Sed-Cu						
59	8.6105	Sed-Cu						
60	8.64	Sed-Cu						
61	8.76	Sed-Cu						
62	9.14	Sed-Cu						
63	9.1615	Sed-Cu						
64	9.36	Sed-Cu						
65	9.71	Sed-Cu						
66	9.8	Sed-Cu						
67	9.89	Sed-Cu						

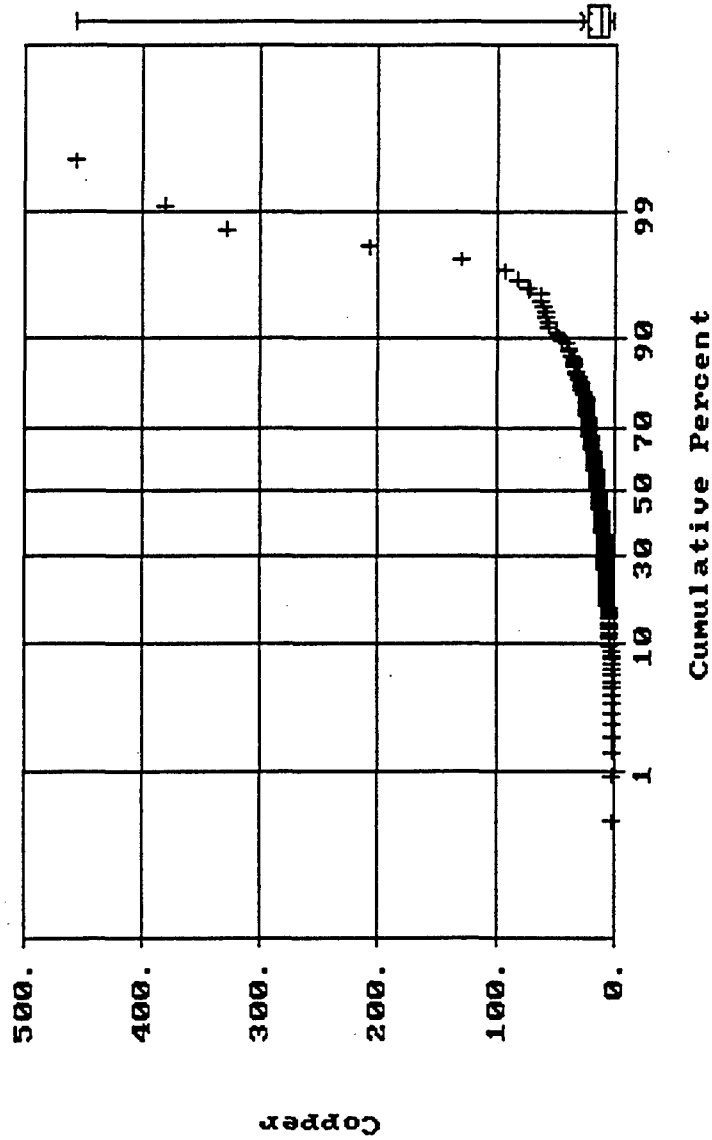
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.42	Sed-Cu	Number of samples		Uncensored values		Sort data	
3	1.42	Sed-Cu	Uncensored	171	Mean	25.673	Create report	
4	1.42	Sed-Cu	Censored	-----	Lognormal mean	23.441	Clear all	
5	1.42	Sed-Cu	Detection limit or PQL	-----	Std. devn.	54.303	Histogram	
6	1.42	Sed-Cu	Method detection limit	-----	Median	13.626	5 10 20	
7	1.42	Sed-Cu	TOTAL	171	Min.	1.42	Clear messages	
8	1.42	Sed-Cu	ENTER DATA		Max	455.194	Calculate UCL	
9	1.42	Sed-Cu	Distribution Decision					
10	1.42	Sed-Cu	Probability plot method		W test	D'Agoetino's test	Lognormal	
11	1.42	Sed-Cu	Lognormal distribution?		Normal distribution?		Normal	
12	1.42	Sed-Cu	r-squared is: 0.962		r-squared is: 0.351		Neither	
13	1.42	Sed-Cu	Recommendations:					
14	1.42	Sed-Cu	Reject lognormal distribution.					
15	1.42	Sed-Cu	Y value is -3.9039. This lies outside the tabled values of 1.4537 and -2.4264					
16	1.42	Sed-Cu	Reject normal distribution.					
17	1.42	Sed-Cu	Y value is -60.3521. This lies outside the tabled values of 1.4537 and -2.4264					
18	3.1237	Sed-Cu	Upper Confidence Limit (UCL)					
19	3.1599	Sed-Cu						
20	3.805	Sed-Cu						
21	3.9282	Sed-Cu						
22	4.534	Sed-Cu						
23	4.5538	Sed-Cu						
24	4.6	Sed-Cu						
25	4.6795	Sed-Cu						
26	4.75	Sed-Cu						
27	4.837	Sed-Cu						
28	4.84	Sed-Cu						
29	4.8475	Sed-Cu						
30	4.95	Sed-Cu						
31	5	Sed-Cu						
32	5.039	Sed-Cu						
33	5.2066	Sed-Cu						
34	5.232	Sed-Cu						
35	5.28	Sed-Cu						
36	5.521	Sed-Cu						
37	5.61	Sed-Cu						
38	5.92	Sed-Cu						
39	5.954	Sed-Cu						
40	6.22	Sed-Cu						
41	6.294	Sed-Cu						
42	6.39	Sed-Cu						
43	6.42	Sed-Cu						
44	6.657	Sed-Cu						
45	6.9759	Sed-Cu						
46	7.21	Sed-Cu						
47	7.219	Sed-Cu						
48	7.29	Sed-Cu						
49	7.29	Sed-Cu						
50	7.295	Sed-Cu						
51	7.57	Sed-Cu						
52	7.9938	Sed-Cu						
53	8	Sed-Cu						
54	8.323	Sed-Cu						
55	8.433	Sed-Cu						
56	8.4519	Sed-Cu						
57	8.56	Sed-Cu						
58	8.585	Sed-Cu						
59	8.6105	Sed-Cu						
60	8.64	Sed-Cu						
61	8.76	Sed-Cu						
62	9.14	Sed-Cu						
63	9.1615	Sed-Cu						
64	9.36	Sed-Cu						
65	9.71	Sed-Cu						
66	9.8	Sed-Cu						
67	9.89	Sed-Cu						

Normal Probability Plot for Copper
Data file: sed-all.dat

S t a t i s t i c s

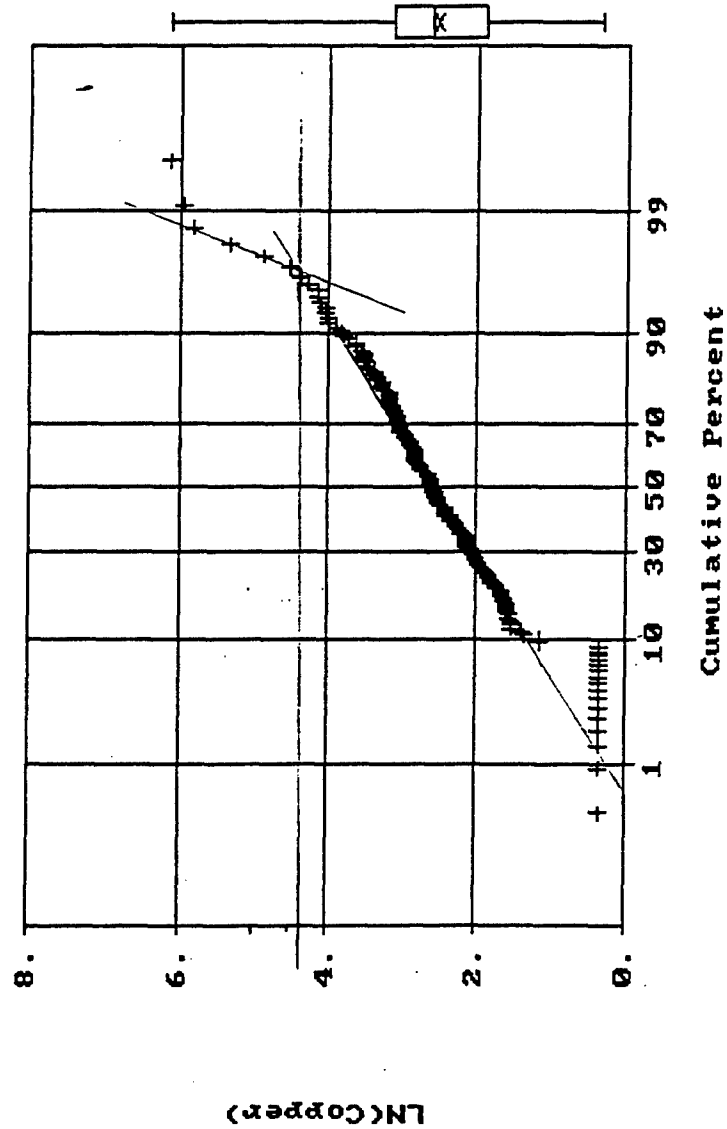
N Total :	259
N Miss :	88
N Used :	171
Mean :	25.673
Variance:	2948.852
Std. Dev:	54.383
% C.V. :	211.516
Skewness:	5.876
Kurtosis:	40.674
Minimum :	1.420
25th % :	6.598
Median :	13.626
75th % :	23.352
Maximum :	455.194



Normal Probability Plot for LN(Copper)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	2.537
Variance :	1.236
Std. Dev :	1.112
% C.V. :	43.821
Skewness :	.140
Kurtosis :	3.867
Minimum :	.351
25th % :	1.887
Median :	2.612
75th % :	3.151
Maximum :	6.121



$Q_{43} = 73.7$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	4065.8174	Sed-Fe	Number of samples		Uncensored values		Sort data	
3	6031.4136	Sed-Fe	Uncensored	171	Mean	18260.895	Create report	
4	6114.6497	Sed-Fe	Censored		Lognormal mean	18215.778	Clear all	
5	6257.7447	Sed-Fe	Detection limit or PQL		Std. devn.	10054.009	Histogram	
6	6418.0672	Sed-Fe	Method detection limit		Median	14313.4965	5	10
7	6953.8462	Sed-Fe	TOTAL	171	Min.	4065.8174	20	
8	7012.5786	Sed-Fe	ENTER DATA		Max	58454.816	Clear messages	
9	7208.4806	Sed-Fe	Distribution Decision				Calculate UCL	
10	7228.5419	Sed-Fe	Probability plot method		W test	D'Agostino's test	Lognormal	
11	7583.3333	Sed-Fe	Lognormal distribution?		Normal distribution?		Normal	
12	7684.9642	Sed-Fe	r-squared is: 0.982		r-squared is: 0.879		Neither	
13	8200	Sed-Fe	Recommendations				Sample size	
14	8200	Sed-Fe	Use lognormal distribution.					
15	8244.1113	Sed-Fe						
16	8578.9474	Sed-Fe						
17	9053.3188	Sed-Fe						
18	9200	Sed-Fe						
19	9400	Sed-Fe						
20	9404.3528	Sed-Fe						
21	9489.5833	Sed-Fe						
22	9500	Sed-Fe						
23	9504.1322	Sed-Fe						
24	9600	Sed-Fe						
25	9600	Sed-Fe						
26	9671.7949	Sed-Fe						
27	9700	Sed-Fe						
28	9700	Sed-Fe						
29	9785.9327	Sed-Fe						
30	9800	Sed-Fe						
31	9800	Sed-Fe						
32	9955.7522	Sed-Fe						
33	9958.0713	Sed-Fe						
34	10000	Sed-Fe						
35	10248.7047	Sed-Fe						
36	10278.013	Sed-Fe						
37	10440.8	Sed-Fe						
38	10481.859	Sed-Fe						
39	10827.3275	Sed-Fe						
40	10828.0255	Sed-Fe						
41	10857.5	Sed-Fe						
42	10984.756	Sed-Fe						
43	11000	Sed-Fe						
44	11000	Sed-Fe						
45	11000	Sed-Fe						
46	11000	Sed-Fe						
47	11000	Sed-Fe						
48	11000	Sed-Fe						
49	11000	Sed-Fe						
50	11000	Sed-Fe						
51	11000	Sed-Fe						
52	11001.2837	Sed-Fe						
53	11239.4958	Sed-Fe						
54	11293.8596	Sed-Fe						
55	11358.811	Sed-Fe						
56	11422.6376	Sed-Fe						
57	11610.8787	Sed-Fe						
58	11848.9605	Sed-Fe						
59	12000	Sed-Fe						
60	12000	Sed-Fe						
61	12000	Sed-Fe						
62	12000	Sed-Fe						
63	12000	Sed-Fe						
64	12000	Sed-Fe						
65	12000	Sed-Fe						
66	12239.61	Sed-Fe						
67	12243.792	Sed-Fe						

Background data analysis

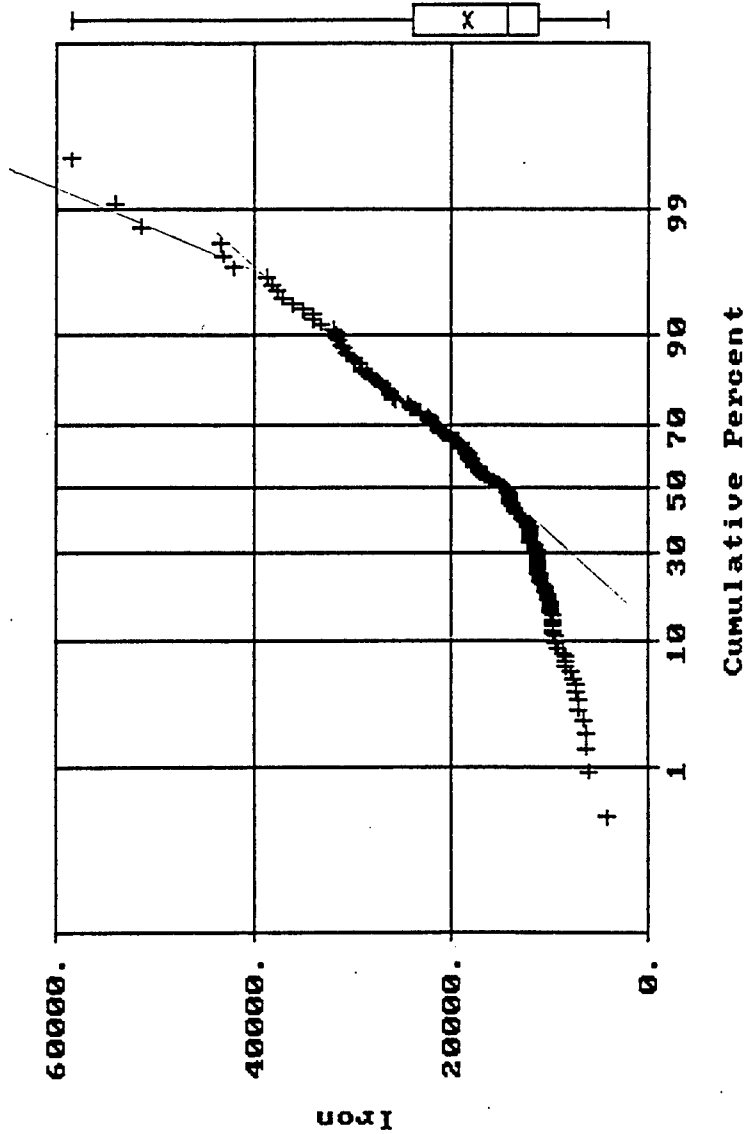
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	4065.8174	Sed-Fe	Number of samples		Uncensored values		Sort data	
3	6031.4136	Sed-Fe	Uncensored	171	Mean	18280.895	Create report	
4	6114.6497	Sed-Fe	Censored		Lognormal mean	18215.778	Clear all	
5	6257.7447	Sed-Fe	Detection limit or PQL	-----	Std. devn.	10054.009	Histogram	
6	6418.0672	Sed-Fe	Method detection limit	-----	Median	14313.4965	5	10
7	6953.8462	Sed-Fe	TOTAL	171	Min.	4065.8174	20	
8	7012.5786	Sed-Fe	ENTER DATA		Max	58454.816		
9	7208.4806	Sed-Fe	Distribution Decision					
10	7228.5419	Sed-Fe	Probability plot method		W test	D'Agostino's test		
11	7583.3333	Sed-Fe	Lognormal distribution?		Normal distribution?			
12	7684.9642	Sed-Fe	r-squared is: 0.982		r-squared is: 0.879			
13	8200	Sed-Fe	Recommendations:					
14	8200	Sed-Fe	Assume lognormal distribution.					
15	8244.1113	Sed-Fe	Y value is 0.753. This lies within the tabled values of 1.4537 and -2.4264					
16	8578.9474	Sed-Fe						
17	9053.3188	Sed-Fe						
18	9200	Sed-Fe						
19	9400	Sed-Fe						
20	9404.3528	Sed-Fe						
21	9489.5833	Sed-Fe						
22	9500	Sed-Fe	Upper Confidence Limit (UCL)					
23	9504.1322	Sed-Fe						
24	9600	Sed-Fe						
25	9600	Sed-Fe						
26	9671.7949	Sed-Fe						
27	9700	Sed-Fe						
28	9700	Sed-Fe						
29	9785.9327	Sed-Fe						
30	9800	Sed-Fe						
31	9800	Sed-Fe						
32	9955.7522	Sed-Fe						
33	9958.0713	Sed-Fe						
34	10000	Sed-Fe						
35	10248.7047	Sed-Fe						
36	10278.013	Sed-Fe						
37	10440.8	Sed-Fe						
38	10481.859	Sed-Fe						
39	10827.3275	Sed-Fe						
40	10828.0255	Sed-Fe						
41	10857.5	Sed-Fe						
42	10984.756	Sed-Fe						
43	11000	Sed-Fe						
44	11000	Sed-Fe						
45	11000	Sed-Fe						
46	11000	Sed-Fe						
47	11000	Sed-Fe						
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50	11000	Sed-Fe						
51	11000	Sed-Fe						
52	11001.2837	Sed-Fe						
53	11239.4958	Sed-Fe						
54	11293.8596	Sed-Fe						
55	11358.811	Sed-Fe						
56	11422.6376	Sed-Fe						
57	11610.8787	Sed-Fe						
58	11848.9605	Sed-Fe						
59	12000	Sed-Fe						
60	12000	Sed-Fe						
61	12000	Sed-Fe						
62	12000	Sed-Fe						
63	12000	Sed-Fe						
64	12000	Sed-Fe						
65	12000	Sed-Fe						
66	12239.61	Sed-Fe						
67	12243.792	Sed-Fe						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

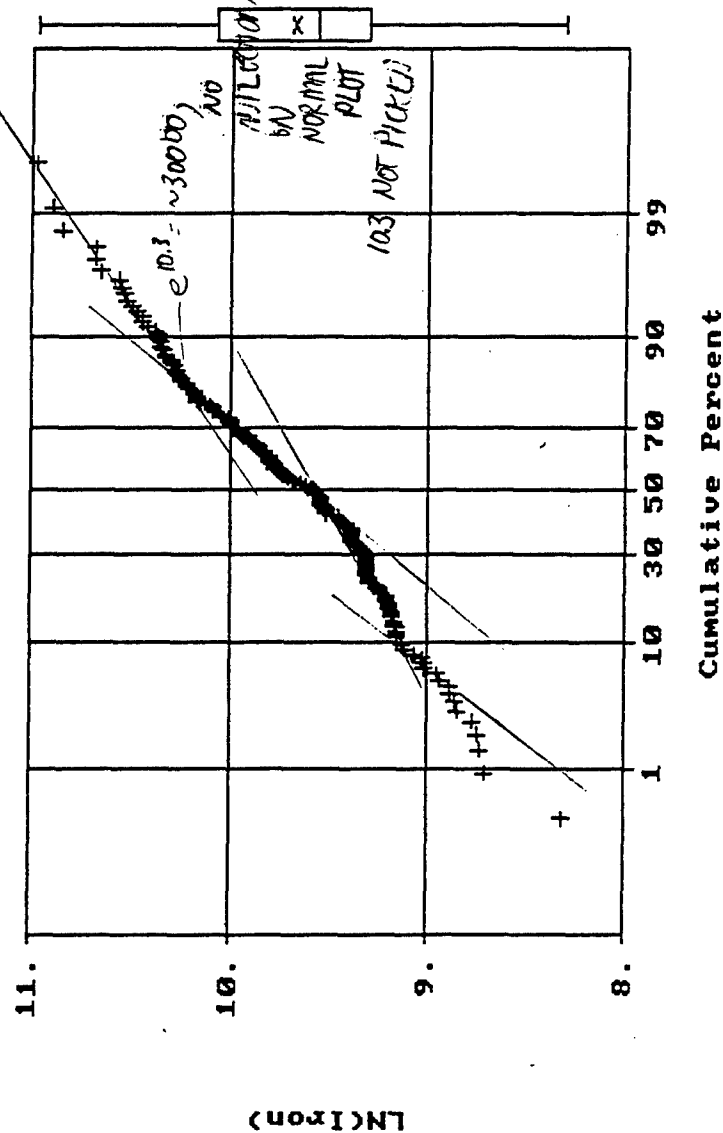
Normal Probability Plot for Iron
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	18260.890
Variance:	101083100.000
Std. Dev:	10054.010
% C.V. :	55.058
Skewness:	1.327
Kurtosis:	4.798
Minimum :	4065.817
25th % :	11000.000
Median :	14313.500
75th % :	23850.000
Maximum :	58454.820



Normal Probability Plot for LN(Iron)
Data file: sed-all.dat



Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	9.679
Variance :	.262
Std. Dev. :	.512
% C.V. :	5.292
Skewness :	.229
Kurtosis :	2.466
Minimum :	8.310
25th % :	9.306
Median :	9.569
75th % :	10.080
Maximum :	10.976

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Sed-Hg	Number of samples		Uncensored values		Sort data	
3	0.005	Sed-Hg	Uncensored	172	Mean	0.066	Create report	
4	0.005	Sed-Hg	Censored		Lognormal mean	0.051	Clear all	
5	0.005	Sed-Hg	Detection limit or PQL		Std. devn.	0.152	Histogram	
6	0.0135	Sed-Hg	Method detection limit		Median	0.0295	5 10 20	
7	0.0135	Sed-Hg	TOTAL	172	Min.	0.005		
8	0.0135	Sed-Hg	ENTER DATA		Max	1.1		
9	0.0135	Sed-Hg	Distribution Decision					
10	0.0135	Sed-Hg	Probability plot method		W test	D'Agostino's test		
11	0.0135	Sed-Hg	Lognormal distribution?		Normal distribution?			
12	0.0135	Sed-Hg	r-squared is: 0.858		r-squared is: 0.330			
13	0.0135	Sed-Hg	Recommendations				Clear messages	
14	0.0135	Sed-Hg	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.0135	Sed-Hg					Calculate UCL	
16	0.0135	Sed-Hg					Lognormal	
17	0.0135	Sed-Hg					Normal	
18	0.0135	Sed-Hg					Neither	
19	0.0135	Sed-Hg					Sample size	
20	0.0135	Sed-Hg						
21	0.0135	Sed-Hg						
22	0.0135	Sed-Hg						
23	0.0135	Sed-Hg						
24	0.0135	Sed-Hg						
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43	0.0135	Sed-Hg						
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45	0.0135	Sed-Hg						
46	0.025	Sed-Hg						
47	0.025	Sed-Hg						
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49	0.025	Sed-Hg						
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63	0.025	Sed-Hg						
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67	0.025	Sed-Hg						

Background data analysis

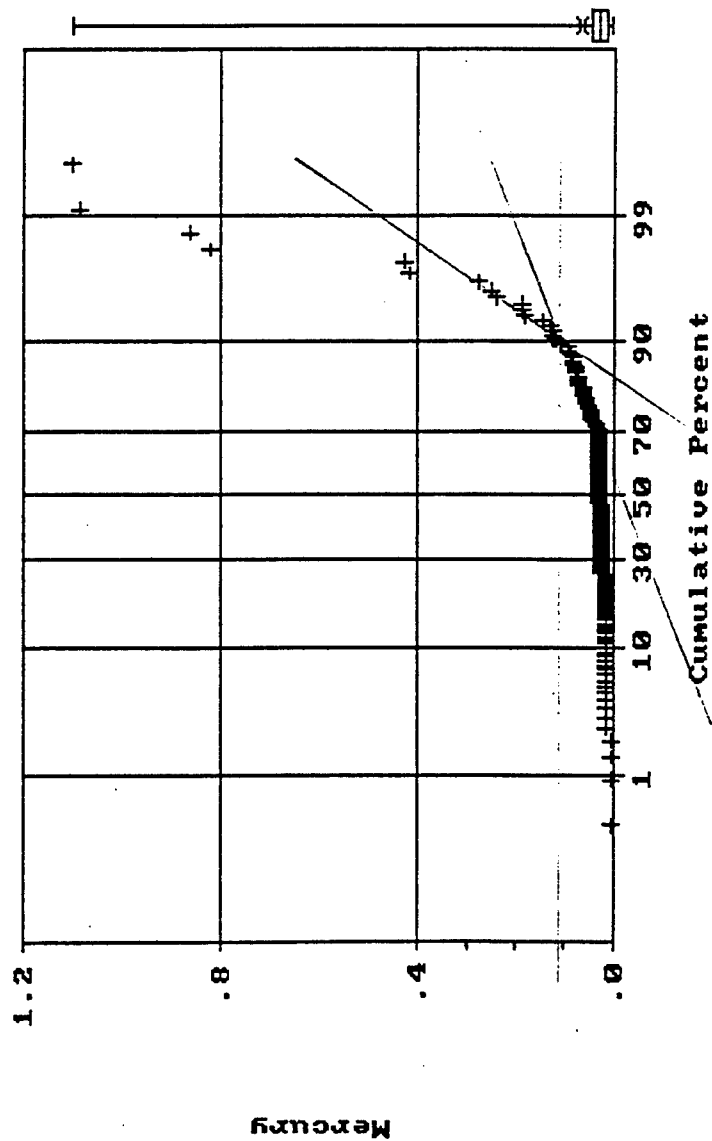
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Sed-Hg	Number of samples		Uncensored values		Sort data	
3	0.005	Sed-Hg	Uncensored	172	Mean	0.066	Create report	
4	0.005	Sed-Hg	Censored		Lognormal mean	0.051	Clear all	
5	0.005	Sed-Hg	Detection limit or PQL	-----	Std. devn.	0.152	Histogram	
6	0.0135	Sed-Hg	Method detection limit	-----	Median	0.0295	5 10 20	
7	0.0135	Sed-Hg	TOTAL	172	Min.	0.005		
8	0.0135	Sed-Hg	ENTER DATA		Max.	1.1		
9	0.0135	Sed-Hg	Distribution Decision					
10	0.0135	Sed-Hg	Probability plot method		W test	D'Agostino's test		
11	0.0135	Sed-Hg	Lognormal distribution?		Normal distribution?			
12	0.0135	Sed-Hg	r-squared is: 0.858		r-squared is: 0.330			
13	0.0135	Sed-Hg	Recommendations					
14	0.0135	Sed-Hg	Reject lognormal distribution.					
15	0.0135	Sed-Hg	Y value is -12.8054. This lies outside the table values of 1.4551 and -2.4252					
16	0.0135	Sed-Hg	Reject normal distribution.					
17	0.0135	Sed-Hg	Y value is -63.3579. This lies outside the table values of 1.4551 and -2.4252					
18	0.0135	Sed-Hg	Upper Confidence Limit (UCL)					
19	0.0135	Sed-Hg						
20	0.0135	Sed-Hg						
21	0.0135	Sed-Hg						
22	0.0135	Sed-Hg						
23	0.0135	Sed-Hg						
24	0.0135	Sed-Hg						
25	0.0135	Sed-Hg						
26	0.0135	Sed-Hg						
27	0.0135	Sed-Hg						
28	0.0135	Sed-Hg						
29	0.0135	Sed-Hg						
30	0.0135	Sed-Hg						
31	0.0135	Sed-Hg						
32	0.0135	Sed-Hg						
33	0.0135	Sed-Hg						
34	0.0135	Sed-Hg						
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39	0.0135	Sed-Hg						
40	0.0135	Sed-Hg						
41	0.0135	Sed-Hg						
42	0.0135	Sed-Hg						
43	0.0135	Sed-Hg						
44	0.0135	Sed-Hg						
45	0.0135	Sed-Hg						
46	0.025	Sed-Hg						
47	0.025	Sed-Hg						
48	0.025	Sed-Hg						
49	0.025	Sed-Hg						
50	0.025	Sed-Hg						
51	0.025	Sed-Hg						
52	0.025	Sed-Hg						
53	0.025	Sed-Hg						
54	0.025	Sed-Hg						
55	0.025	Sed-Hg						
56	0.025	Sed-Hg						
57	0.025	Sed-Hg						
58	0.025	Sed-Hg						
59	0.025	Sed-Hg						
60	0.025	Sed-Hg						
61	0.025	Sed-Hg						
62	0.025	Sed-Hg						
63	0.025	Sed-Hg						
64	0.025	Sed-Hg						
65	0.025	Sed-Hg						
66	0.025	Sed-Hg						
67	0.025	Sed-Hg						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Mercury
Data file: sed-all.dat

S t a t i s t i c s

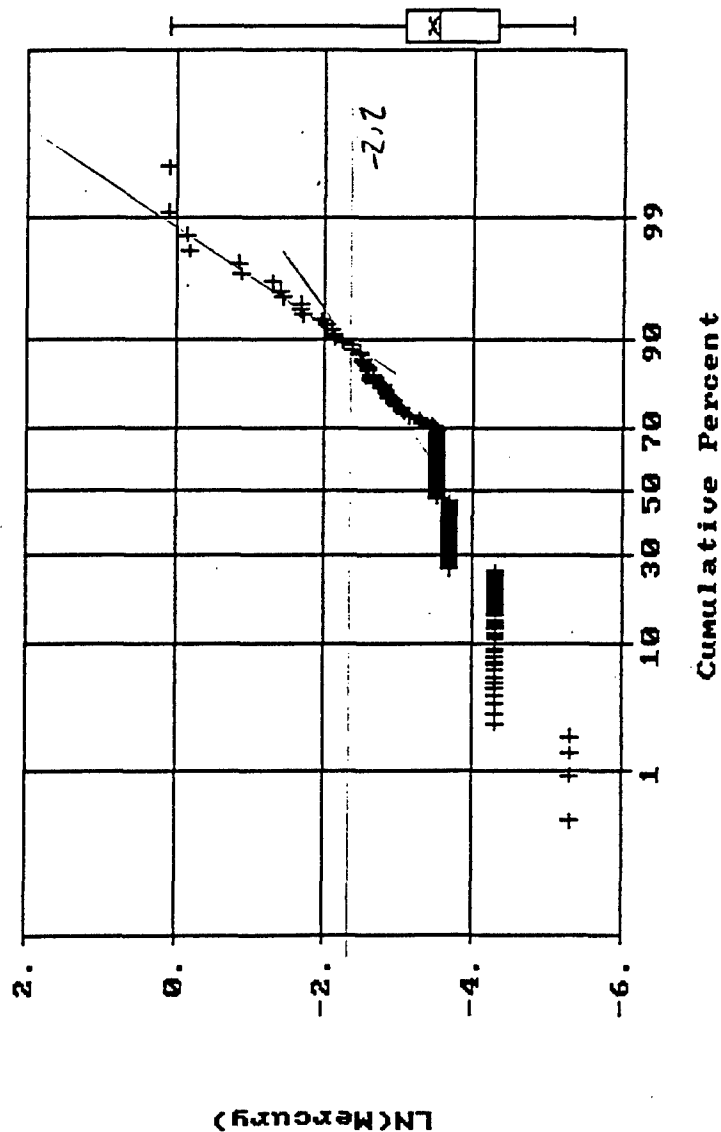
N Total :	259
N Miss :	87
N Used :	172
Mean :	.066
Variance :	.023
Std. Dev. :	.152
% C.V. :	229.320
Skewness :	5.278
Kurtosis :	32.356
Minimum :	.005
25th % :	.014
Median :	.030
75th % :	.047
Maximum :	1.100



Normal Probability Plot for LN(Mercury)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	87
N Used :	172
Mean :	-3.420
Variance :	.897
Std. Dev :	.947
% C.V. :	27.691
Skewness :	1.378
Kurtosis :	5.791
Minimum :	-5.298
25th % :	-4.305
Median :	-3.523
75th % :	-3.058
Maximum :	.095



$$e^{-2.12} = 0.11$$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	75.093	Sed-Mn	Number of samples		Uncensored values		Sort data	
3	81.282	Sed-Mn	Uncensored	171	Mean	290.936	Create report	
4	85.881	Sed-Mn	Censored		Lognormal mean	273.396	Clear all	
5	86.555	Sed-Mn	Detection limit or PQL		Std. devn.	354.585	Histogram	
6	89.26	Sed-Mn	Method detection limit		Median	186	5 10 20	
7	91.518	Sed-Mn	TOTAL	171	Min.	75.0929		
8	94.8	Sed-Mn	ENTER DATA		Max	3864.1189		
9	97.4	Sed-Mn	Distribution Decision					
10	98.9	Sed-Mn	Probability plot method		W test	D'Agostino's test		
11	99.3	Sed-Mn	Lognormal distribution?		Normal distribution?			
12	99.6	Sed-Mn	r-squared is: 0.930		r-squared is: 0.441			
13	101.36	Sed-Mn	Recommendations					
14	102.26	Sed-Mn	Use lognormal distribution.					
15	102.6	Sed-Mn						
16	102.89	Sed-Mn						
17	104	Sed-Mn						
18	105.87	Sed-Mn						
19	107.71	Sed-Mn						
20	109.38	Sed-Mn						
21	109.81	Sed-Mn						
22	110.06	Sed-Mn	Upper Confidence Limit (UCL)					
23	111.18	Sed-Mn						
24	114.32	Sed-Mn						
25	115.63	Sed-Mn						
26	117.52	Sed-Mn						
27	120	Sed-Mn						
28	120.03	Sed-Mn						
29	123	Sed-Mn						
30	123.16	Sed-Mn						
31	123.17	Sed-Mn						
32	125	Sed-Mn						
33	126	Sed-Mn						
34	126.15	Sed-Mn						
35	127	Sed-Mn						
36	127.47	Sed-Mn						
37	128	Sed-Mn						
38	130	Sed-Mn						
39	130	Sed-Mn						
40	130.41	Sed-Mn						
41	131	Sed-Mn						
42	131.42	Sed-Mn						
43	132	Sed-Mn						
44	132.29	Sed-Mn						
45	133	Sed-Mn						
46	134	Sed-Mn						
47	134.14	Sed-Mn						
48	138.08	Sed-Mn						
49	139	Sed-Mn						
50	140	Sed-Mn						
51	144	Sed-Mn						
52	144	Sed-Mn						
53	145.06	Sed-Mn						
54	147.92	Sed-Mn						
55	150	Sed-Mn						
56	150.81	Sed-Mn						
57	151	Sed-Mn						
58	151.26	Sed-Mn						
59	151.66	Sed-Mn						
60	155.96	Sed-Mn						
61	156	Sed-Mn						
62	158	Sed-Mn						
63	158.19	Sed-Mn						
64	160	Sed-Mn						
65	162.08	Sed-Mn						
66	163.85	Sed-Mn						
67	167.31	Sed-Mn						

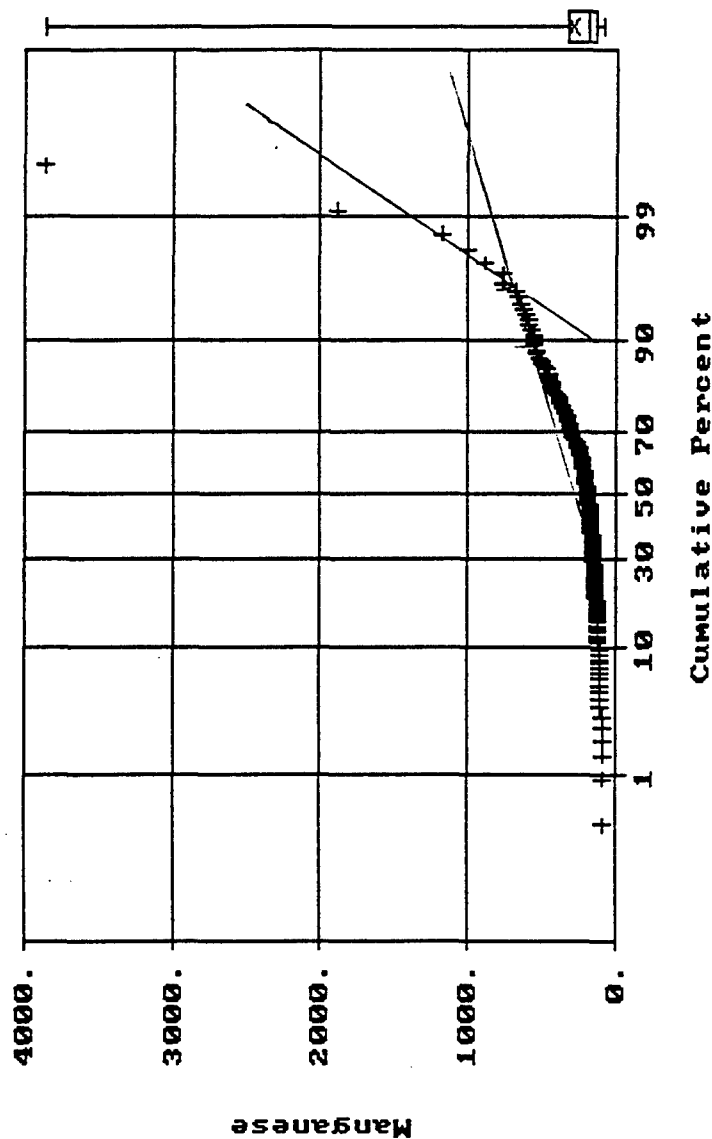
Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	75.093	Sed-Mn	Number of samples		Uncensored values		Sort data	
3	81.282	Sed-Mn	Uncensored	171	Mean	290.936	Create report	
4	85.881	Sed-Mn	Censored		Lognormal mean	273.396	Clear all	
5	86.555	Sed-Mn	Detection limit or PQL	-----	Std. devn.	354.565	Histogram	
6	89.26	Sed-Mn	Method detection limit	-----	Median	186	5	10
7	91.518	Sed-Mn	TOTAL	171	Min.	75.0929	20	
8	94.8	Sed-Mn	ENTER DATA		Max	3864.1189		
9	97.4	Sed-Mn	Distribution Decision					
10	98.9	Sed-Mn	Probability plot method		W test	D'Agostino's test		
11	99.3	Sed-Mn	Lognormal distribution?		Normal distribution?			
12	99.6	Sed-Mn	r-squared is: 0.930		r-squared is: 0.441			
13	101.36	Sed-Mn	Recommendations					
14	102.26	Sed-Mn	Reject lognormal distribution.					
15	102.6	Sed-Mn	Y value is -4.1017. This lies outside the tabled values of 1.4537 and -2.4264					
16	102.89	Sed-Mn	Reject normal distribution.					
17	104	Sed-Mn	Y value is -49.0552. This lies outside the tabled values of 1.4537 and -2.4264					
18	105.87	Sed-Mn	Upper Confidence Limit (UCL)					
19	107.71	Sed-Mn						
20	109.38	Sed-Mn						
21	109.81	Sed-Mn						
22	110.06	Sed-Mn						
23	111.18	Sed-Mn						
24	114.32	Sed-Mn						
25	115.63	Sed-Mn						
26	117.52	Sed-Mn						
27	120	Sed-Mn						
28	120.03	Sed-Mn						
29	123	Sed-Mn						
30	123.16	Sed-Mn						
31	123.17	Sed-Mn						
32	125	Sed-Mn						
33	126	Sed-Mn						
34	126.15	Sed-Mn						
35	127	Sed-Mn						
36	127.47	Sed-Mn						
37	128	Sed-Mn						
38	130	Sed-Mn						
39	130	Sed-Mn						
40	130.41	Sed-Mn						
41	131	Sed-Mn						
42	131.42	Sed-Mn						
43	132	Sed-Mn						
44	132.29	Sed-Mn						
45	133	Sed-Mn						
46	134	Sed-Mn						
47	134.14	Sed-Mn						
48	138.08	Sed-Mn						
49	139	Sed-Mn						
50	140	Sed-Mn						
51	144	Sed-Mn						
52	144	Sed-Mn						
53	145.06	Sed-Mn						
54	147.92	Sed-Mn						
55	150	Sed-Mn						
56	150.81	Sed-Mn						
57	151	Sed-Mn						
58	151.26	Sed-Mn						
59	151.66	Sed-Mn						
60	155.96	Sed-Mn						
61	156	Sed-Mn						
62	158	Sed-Mn						
63	158.19	Sed-Mn						
64	160	Sed-Mn						
65	162.08	Sed-Mn						
66	163.85	Sed-Mn						
67	167.31	Sed-Mn						

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Manganese
Data file: sed-all.dat



Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	290.936
Variance :	125716.500
Std. Dev :	354.565
% C.V. :	121.871
Skewness :	6.787
Kurtosis :	63.966
Minimum :	75.093
25th % :	132.219
Median :	186.000
75th % :	333.500
Maximum :	3864.119

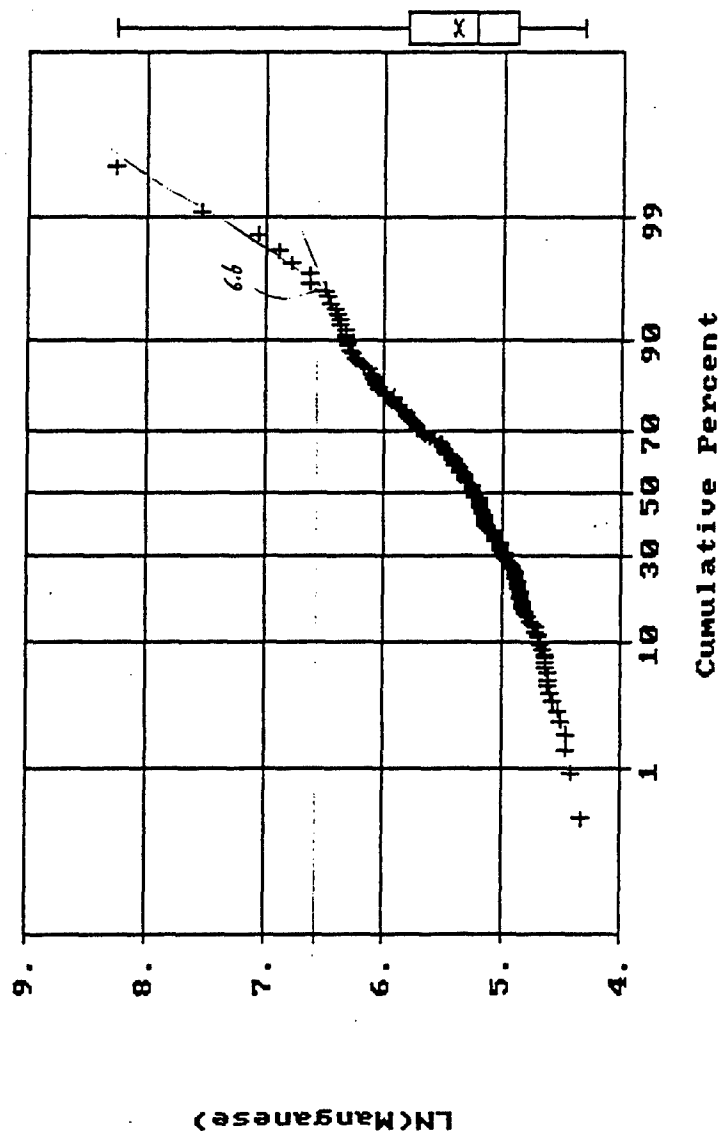
735

544

Normal Probability Plot for LN(Manganese)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	5.396
Variance:	.430
Std. Dev:	.656
% C.V. :	12.156
Skewness:	1.046
Kurtosis:	4.514
Minimum :	4.319
25th % :	4.884
Median :	5.226
75th % :	5.810
Maximum :	8.259



6.6 = 735

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	12.119	Sed-Ni	Number of samples: 171				Sort data	
3	14.9738	Sed-Ni	Uncensored values				Create report	
4	15.0526	Sed-Ni	Uncensored	171	Mean	87.935	Clear all	
5	15.7113	Sed-Ni	Censored		Lognormal mean	69.946	Histogram	
6	16.6157	Sed-Ni	Detection limit or PQL	-----	Std. devn.	182.608	5	10
7	17.8197	Sed-Ni	Method detection limit		Median	37.5	20	
8	18.0191	Sed-Ni	TOTAL	171	Min.	12.119		
9	18.312	Sed-Ni	ENTER DATA					
10	18.8679	Sed-Ni	Distribution Decision					
11	19.2821	Sed-Ni	Probability plot method					
12	19.4328	Sed-Ni	W test					
13	19.6702	Sed-Ni	D'Agostino's test					
14	20.4873	Sed-Ni	Lognormal distribution?					
15	20.5392	Sed-Ni	Normal distribution?					
16	20.5882	Sed-Ni	r-squared is: 0.863					
17	20.8	Sed-Ni	r-squared is: 0.356					
18	21	Sed-Ni	Recommendations:				Clear messages	
19	21.1	Sed-Ni	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
20	21.1134	Sed-Ni					Calculate UCL	
21	21.1458	Sed-Ni					Lognormal	
22	21.306	Sed-Ni	Upper Confidence Limit (UCL)				Normal	
23	21.5481	Sed-Ni					Neither	
24	21.8	Sed-Ni					Sample size	
25	22.3	Sed-Ni						
26	22.4	Sed-Ni						
27	22.5	Sed-Ni						
28	22.9319	Sed-Ni						
29	23.2	Sed-Ni						
30	23.2301	Sed-Ni						
31	23.291	Sed-Ni						
32	24.0625	Sed-Ni						
33	24.2	Sed-Ni						
34	24.4	Sed-Ni						
35	24.6	Sed-Ni						
36	24.7	Sed-Ni						
37	24.7423	Sed-Ni						
38	25.1	Sed-Ni						
39	25.3	Sed-Ni						
40	25.3375	Sed-Ni						
41	25.4625	Sed-Ni						
42	25.474	Sed-Ni						
43	25.641	Sed-Ni						
44	25.7	Sed-Ni						
45	26.3212	Sed-Ni						
46	26.561	Sed-Ni						
47	26.566	Sed-Ni						
48	27	Sed-Ni						
49	27.012	Sed-Ni						
50	27.377	Sed-Ni						
51	27.5	Sed-Ni						
52	28.303	Sed-Ni						
53	28.534	Sed-Ni						
54	28.777	Sed-Ni						
55	28.8205	Sed-Ni						
56	28.921	Sed-Ni						
57	29.044	Sed-Ni						
58	29.1	Sed-Ni						
59	29.2	Sed-Ni						
60	29.323	Sed-Ni						
61	29.3692	Sed-Ni						
62	30.1	Sed-Ni						
63	30.1	Sed-Ni						
64	30.575	Sed-Ni						
65	30.709	Sed-Ni						
66	30.775	Sed-Ni						
67	31.0595	Sed-Ni						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	12.119	Sed-Ni	Number of samples		Uncensored values		Sort data	
3	14.9738	Sed-Ni	Uncensored	171	Mean	87.935	Create report	
4	15.0526	Sed-Ni	Censored		Lognormal mean	89.946	Clear all	
5	15.7113	Sed-Ni	Detection limit or PQL		Std. devn.	182.608	Histogram	
6	16.6157	Sed-Ni	Method detection limit		Median	37.5	5 10 20	
7	17.8197	Sed-Ni	TOTAL	171	Min.	12.119		
8	18.0191	Sed-Ni	ENTER DATA		Max	1520		
9	18.312	Sed-Ni	Distribution Decision					
10	18.8679	Sed-Ni	Probability plot method		W test	D'Agostino's test		
11	19.2821	Sed-Ni	Lognormal distribution?		Normal distribution?			
12	19.4328	Sed-Ni	r-squared is: 0.863		r-squared is: 0.356			
13	19.6702	Sed-Ni	Recommendations					
14	20.4873	Sed-Ni	Reject lognormal distribution.					
15	20.5392	Sed-Ni	Y value is -10.8344. This lies outside the tabled values of 1.4537 and -2.4264					
16	20.5882	Sed-Ni	Reject normal distribution.					
17	20.8	Sed-Ni	Y value is -60.2635. This lies outside the tabled values of 1.4537 and -2.4264					
18	21	Sed-Ni	Upper Confidence Limit (UCL)					
19	21.1	Sed-Ni						
20	21.1134	Sed-Ni						
21	21.1458	Sed-Ni						
22	21.306	Sed-Ni						
23	21.5481	Sed-Ni						
24	21.8	Sed-Ni						
25	22.3	Sed-Ni						
26	22.4	Sed-Ni						
27	22.5	Sed-Ni						
28	22.9319	Sed-Ni						
29	23.2	Sed-Ni						
30	23.2301	Sed-Ni						
31	23.291	Sed-Ni						
32	24.0625	Sed-Ni						
33	24.2	Sed-Ni						
34	24.4	Sed-Ni						
35	24.6	Sed-Ni						
36	24.7	Sed-Ni						
37	24.7423	Sed-Ni						
38	25.1	Sed-Ni						
39	25.3	Sed-Ni						
40	25.3375	Sed-Ni						
41	25.4625	Sed-Ni						
42	25.474	Sed-Ni						
43	25.641	Sed-Ni						
44	25.7	Sed-Ni						
45	26.3212	Sed-Ni						
46	26.561	Sed-Ni						
47	26.566	Sed-Ni						
48	27	Sed-Ni						
49	27.012	Sed-Ni						
50	27.377	Sed-Ni						
51	27.5	Sed-Ni						
52	28.303	Sed-Ni						
53	28.534	Sed-Ni						
54	28.777	Sed-Ni						
55	28.8205	Sed-Ni						
56	28.921	Sed-Ni						
57	29.044	Sed-Ni						
58	29.1	Sed-Ni						
59	29.2	Sed-Ni						
60	29.323	Sed-Ni						
61	29.3692	Sed-Ni						
62	30.1	Sed-Ni						
63	30.1	Sed-Ni						
64	30.575	Sed-Ni						
65	30.709	Sed-Ni						
66	30.775	Sed-Ni						
67	31.0595	Sed-Ni						

Paste values

Sort data

Create report

Clear all

Histogram

5 10 20

Clear messages

Calculate UCL

Lognormal

Normal

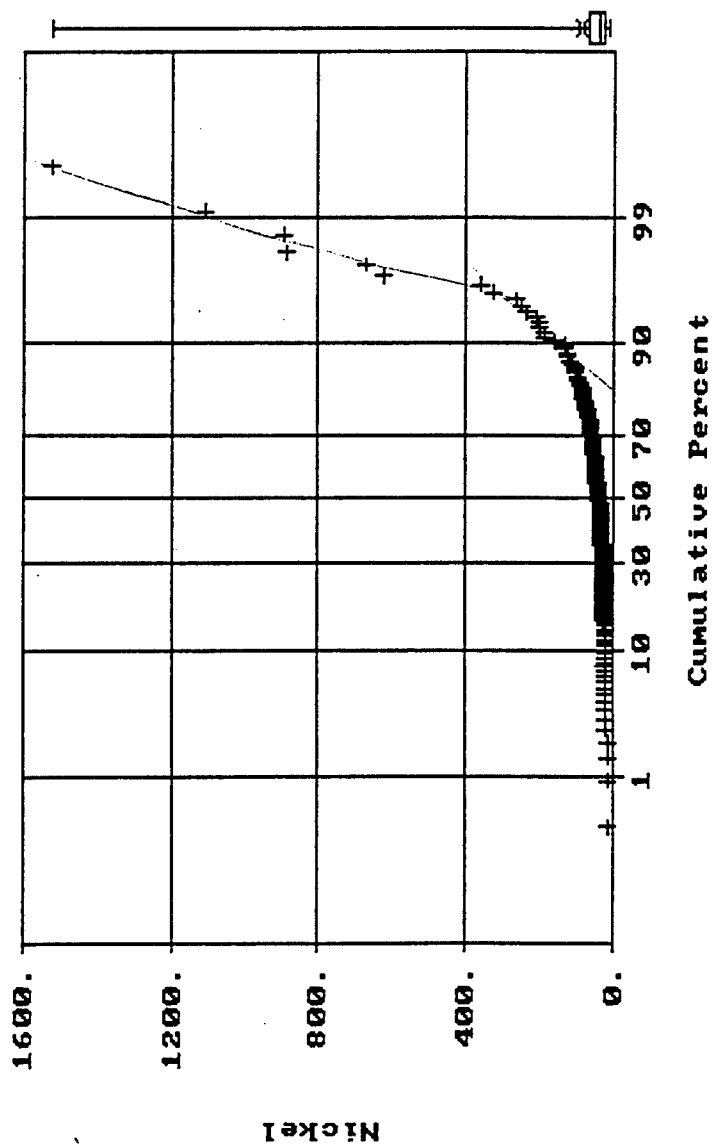
Neither

Sample size

Normal Probability Plot for Nickel Data file: sed-all.dat

S t a t i s t i c s

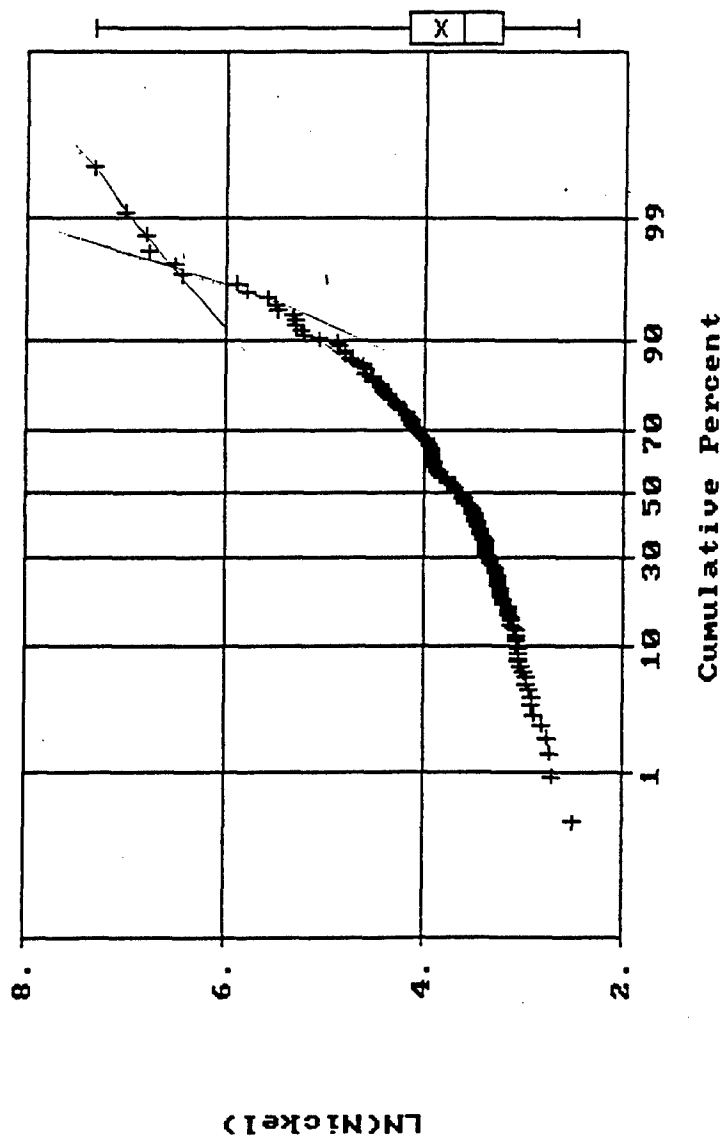
N Total :	259
N Miss :	88
N Used :	171
Mean :	87.935
Variance :	33345.500
Std. Dev :	182.608
% C.V. :	207.662
Skewness :	5.240
Kurtosis :	33.669
Minimum :	12.119
25th % :	25.685
Median :	37.500
75th % :	64.406
Maximum :	1520.000



Normal Probability Plot for LN(Nickel)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	3.864
Variance :	.767
Std. Dev :	.876
% C.V. :	22.668
Skewness :	1.593
Kurtosis :	5.928
Minimum :	2.495
25th % :	3.246
Median :	3.624
75th % :	4.165
Maximum :	7.326



5.95 \approx 380
C

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.7	Sed-Pb	Number of samples		Uncensored values		Sort data	
3	1.17	Sed-Pb	Uncensored	259	Mean	51.910	Create report	
4	1.33	Sed-Pb	Censored		Lognormal mean	40.635	Clear all	
5	1.35	Sed-Pb	Detection limit or PQL		Std. devn.	131.086	Histogram	
6	1.35	Sed-Pb	Method detection limit		Median	12.5	5	10
7	1.53	Sed-Pb	TOTAL	259	Min.	0.7	20	
8	1.5901	Sed-Pb	ENTER DATA		Max	1200		
9	1.5966	Sed-Pb	Distribution Decision					
10	1.71	Sed-Pb	Probability plot method		W test	D'Agostino's test		
11	1.72	Sed-Pb	Lognormal distribution?		Normal distribution?			
12	1.77	Sed-Pb	r-squared is: 0.939		r-squared is: 0.395			
13	1.801	Sed-Pb	Recommendations:					
14	1.8868	Sed-Pb	Reject lognormal distribution.					
15	1.89	Sed-Pb	Y value is -3.6032. This lies outside the tabled values of 1.5508 and -2.3422					
16	1.9271	Sed-Pb	Reject normal distribution.					
17	1.95	Sed-Pb	Y value is -68.8311. This lies outside the tabled values of 1.5508 and -2.3422					
18	1.9703	Sed-Pb	Upper Confidence Limit (UCL)					
19	2.0476	Sed-Pb						
20	2.08	Sed-Pb						
21	2.12	Sed-Pb						
22	2.15	Sed-Pb						
23	2.17	Sed-Pb						
24	2.2484	Sed-Pb						
25	2.293	Sed-Pb						
26	2.32	Sed-Pb						
27	2.42	Sed-Pb						
28	2.4701	Sed-Pb						
29	2.536	Sed-Pb						
30	2.57	Sed-Pb						
31	2.6205	Sed-Pb						
32	2.6526	Sed-Pb						
33	2.7254	Sed-Pb						
34	2.73	Sed-Pb						
35	2.8256	Sed-Pb						
36	2.94	Sed-Pb						
37	2.9832	Sed-Pb						
38	3.02	Sed-Pb						
39	3.2212	Sed-Pb						
40	3.2813	Sed-Pb						
41	3.4	Sed-Pb						
42	3.5	Sed-Pb						
43	3.58	Sed-Pb						
44	3.6482	Sed-Pb						
45	3.68	Sed-Pb						
46	3.72	Sed-Pb						
47	3.72	Sed-Pb						
48	3.72	Sed-Pb						
49	3.72	Sed-Pb						
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51	3.72	Sed-Pb						
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56	3.72	Sed-Pb						
57	3.72	Sed-Pb						
58	3.72	Sed-Pb						
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63	3.72	Sed-Pb						
64	3.72	Sed-Pb						
65	3.72	Sed-Pb						
66	3.72	Sed-Pb						
67	3.72	Sed-Pb						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

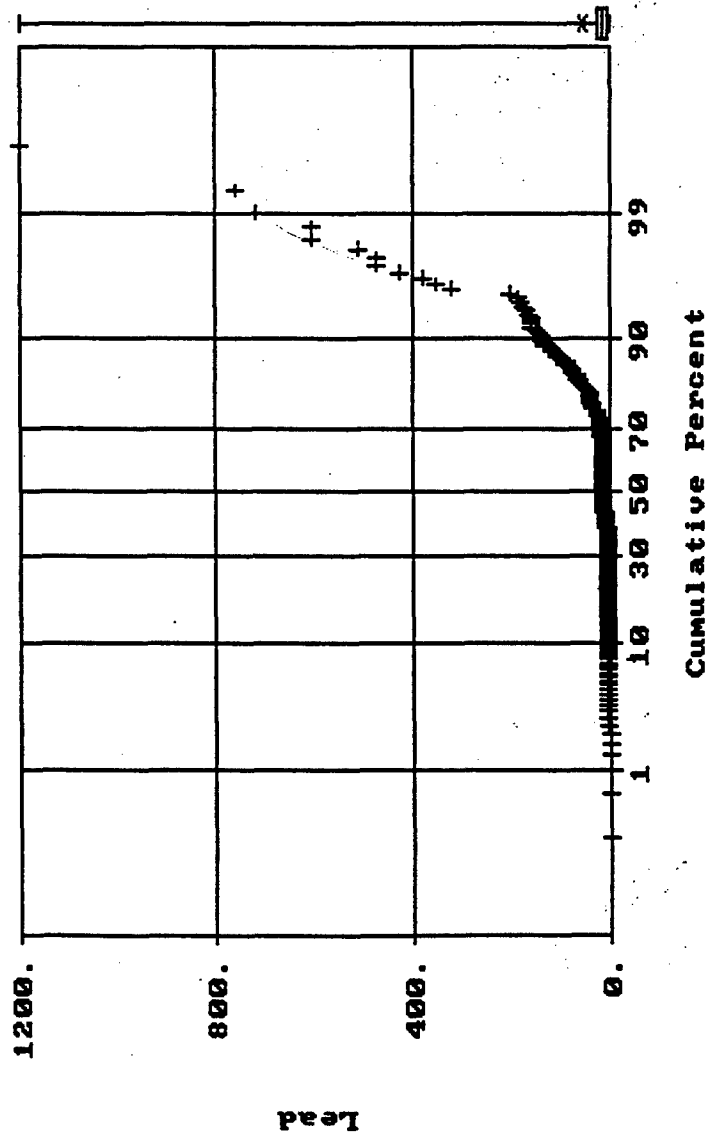
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	0.7	Sed-Pb	Number of samples		Uncensored values		Sort data	
3	1.17	Sed-Pb	Uncensored	259	Mean	51.910	Create report	
4	1.33	Sed-Pb	Censored		Lognormal mean	40.635	Clear all	
5	1.35	Sed-Pb	Detection limit or PQL		Std. devn.	131.086	Histogram	
6	1.35	Sed-Pb	Method detection limit		Median	12.5	5	10
7	1.53	Sed-Pb	TOTAL	259	Min.	0.7	20	
8	1.5901	Sed-Pb	ENTER DATA		Max.	1200		
9	1.5966	Sed-Pb	Distribution Decision					
10	1.71	Sed-Pb	Probability plot method		W test	D'Agostino's test		
11	1.72	Sed-Pb	Lognormal distribution?		Normal distribution?			
12	1.77	Sed-Pb	r-squared is: 0.939		r-squared is: 0.395			
13	1.801	Sed-Pb	Recommendations					
14	1.8868	Sed-Pb	Use lognormal distribution.					
15	1.89	Sed-Pb						
16	1.9271	Sed-Pb						
17	1.95	Sed-Pb						
18	1.9703	Sed-Pb						
19	2.0476	Sed-Pb						
20	2.08	Sed-Pb						
21	2.12	Sed-Pb	Upper Confidence Limit (UCL)					
22	2.15	Sed-Pb						
23	2.17	Sed-Pb						
24	2.2484	Sed-Pb						
25	2.293	Sed-Pb						
26	2.32	Sed-Pb						
27	2.42	Sed-Pb						
28	2.4701	Sed-Pb						
29	2.536	Sed-Pb						
30	2.57	Sed-Pb						
31	2.6205	Sed-Pb						
32	2.6526	Sed-Pb						
33	2.7254	Sed-Pb						
34	2.73	Sed-Pb						
35	2.8256	Sed-Pb						
36	2.94	Sed-Pb						
37	2.9832	Sed-Pb						
38	3.02	Sed-Pb						
39	3.2212	Sed-Pb						
40	3.2813	Sed-Pb						
41	3.4	Sed-Pb						
42	3.5	Sed-Pb						
43	3.58	Sed-Pb						
44	3.6482	Sed-Pb						
45	3.68	Sed-Pb						
46	3.72	Sed-Pb						
47	3.72	Sed-Pb						
48	3.72	Sed-Pb						
49	3.72	Sed-Pb						
50	3.72	Sed-Pb						
51	3.72	Sed-Pb						
52	3.72	Sed-Pb						
53	3.72	Sed-Pb						
54	3.72	Sed-Pb						
55	3.72	Sed-Pb						
56	3.72	Sed-Pb						
57	3.72	Sed-Pb						
58	3.72	Sed-Pb						
59	3.72	Sed-Pb						
60	3.72	Sed-Pb						
61	3.72	Sed-Pb						
62	3.72	Sed-Pb						
63	3.72	Sed-Pb						
64	3.72	Sed-Pb						
65	3.72	Sed-Pb						
66	3.72	Sed-Pb						
67	3.72	Sed-Pb						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Lead
Data file: sed-all.dat

S t a t i s t i c s

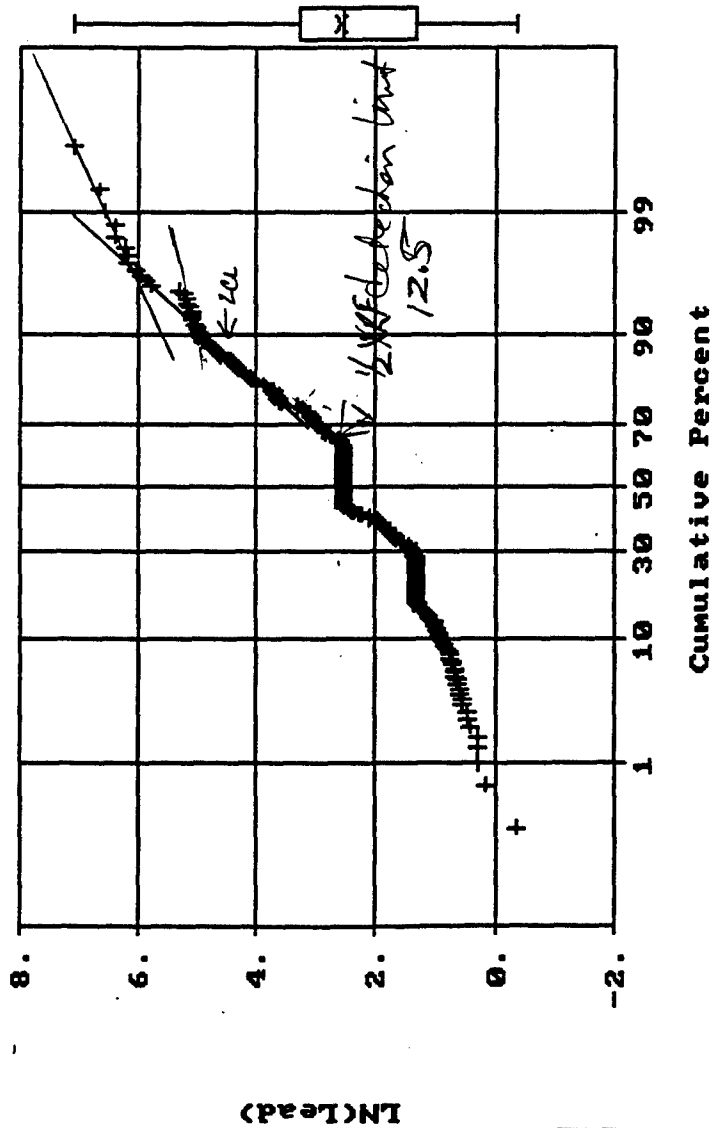
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N Miss :	0
N Used :	259
Mean :	51.910
Variance:	17183.560
Std. Dev:	131.086
% C.V. :	252.527
Skewness:	4.950
Kurtosis:	33.112
Minimum :	.700
25th % :	3.720
Median :	12.500
75th % :	25.875
Maximum :	1200.000



Normal Probability Plot for LN(Lead)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	0
N Used :	259
Mean :	2.579
Variance :	2.252
Std. Dev :	1.501
% C.V. :	58.196
Skewness :	.761
Kurtosis :	3.034
Minimum :	-.357
25th % :	1.314
Median :	2.526
75th % :	3.253
Maximum :	7.090



8 outliers

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Sed-Sb	Number of samples		Uncensored values		Sort data	
3	0.05	Sed-Sb	Uncensored	157	Mean	14.215	Create report	
4	0.05	Sed-Sb	Censored		Lognormal mean	34.360	Clear all	
5	0.05	Sed-Sb	Detection limit or PQL	-----	Std. devn.	17.890	Histogram	
6	0.05	Sed-Sb	Method detection limit	-----	Median	9.8	5	10
7	0.05	Sed-Sb	TOTAL	157	Min.	0.05	20	
8	0.05	Sed-Sb	ENTER DATA		Max	166		
9	0.05	Sed-Sb	Distribution Decision					
10	0.2	Sed-Sb	Probability plot method		W test	D'Agostino's test		
11	0.2	Sed-Sb	Lognormal distribution?		Normal distribution?			
12	0.2	Sed-Sb	r-squared is: 0.698		r-squared is: 0.435			
13	0.2	Sed-Sb	Recommendations					
14	0.2	Sed-Sb	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.2	Sed-Sb						
16	0.2	Sed-Sb						
17	0.25	Sed-Sb	Upper Confidence Limit (UCL)					
18	0.25	Sed-Sb						
19	0.25	Sed-Sb						
20	0.25	Sed-Sb						
21	0.25	Sed-Sb						
22	0.25	Sed-Sb						
23	0.25	Sed-Sb						
24	0.25	Sed-Sb						
25	0.25	Sed-Sb						
26	0.25	Sed-Sb						
27	0.25	Sed-Sb						
28	0.25	Sed-Sb						
29	0.25	Sed-Sb						
30	2.5	Sed-Sb						
31	2.5	Sed-Sb						
32	2.5	Sed-Sb						
33	9.8	Sed-Sb						
34	9.8	Sed-Sb						
35	9.8	Sed-Sb						
36	9.8	Sed-Sb						
37	9.8	Sed-Sb						
38	9.8	Sed-Sb						
39	9.8	Sed-Sb						
40	9.8	Sed-Sb						
41	9.8	Sed-Sb						
42	9.8	Sed-Sb						
43	9.8	Sed-Sb						
44	9.8	Sed-Sb						
45	9.8	Sed-Sb						
46	9.8	Sed-Sb						
47	9.8	Sed-Sb						
48	9.8	Sed-Sb						
49	9.8	Sed-Sb						
50	9.8	Sed-Sb						
51	9.8	Sed-Sb						
52	9.8	Sed-Sb						
53	9.8	Sed-Sb						
54	9.8	Sed-Sb						
55	9.8	Sed-Sb						
56	9.8	Sed-Sb						
57	9.8	Sed-Sb						
58	9.8	Sed-Sb						
59	9.8	Sed-Sb						
60	9.8	Sed-Sb						
61	9.8	Sed-Sb						
62	9.8	Sed-Sb						
63	9.8	Sed-Sb						
64	9.8	Sed-Sb						
65	9.8	Sed-Sb						
66	9.8	Sed-Sb						
67	9.8	Sed-Sb						

Clear messages

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

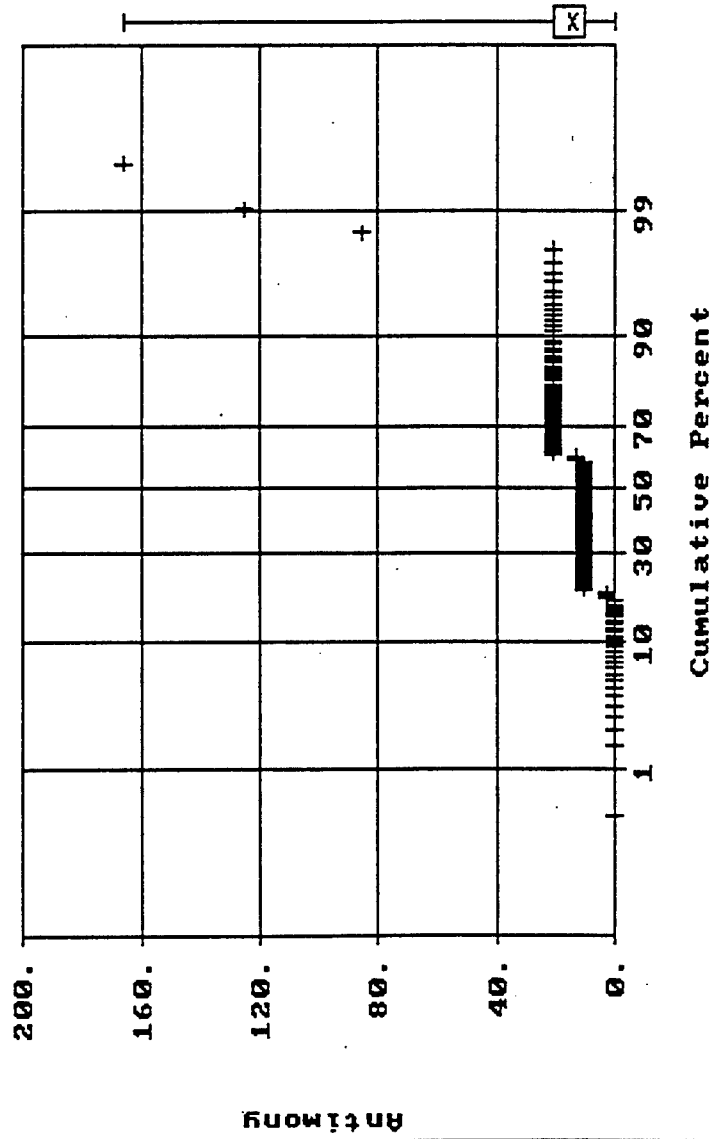
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Sed-Sb	Number of samples		Uncensored values		Sort data	
3	0.05	Sed-Sb	Uncensored	157	Mean	14.215	Create report	
4	0.05	Sed-Sb	Censored		Lognormal mean	34.360	Clear all	
5	0.05	Sed-Sb	Detection limit or PQL		Std. devn.	17.890	Histogram	
6	0.05	Sed-Sb	Method detection limit		Median	9.8	5 10 20	
7	0.05	Sed-Sb	TOTAL	157	Min.	0.05		
8	0.05	Sed-Sb	ENTER DATA		Max	166		
9	0.05	Sed-Sb	Distribution Decision					
10	0.2	Sed-Sb	Probability plot method		W test	D'Agostino's test		
11	0.2	Sed-Sb	Lognormal distribution?		Normal distribution?			
12	0.2	Sed-Sb	r-squared is: 0.698		r-squared is: 0.435			
13	0.2	Sed-Sb	Recommendations					
14	0.2	Sed-Sb	Reject lognormal distribution.					
15	0.2	Sed-Sb	Y value is -21.0604. This lies outside the table values of 1.4332 and -2.4435					
16	0.2	Sed-Sb	Reject normal distribution.					
17	0.25	Sed-Sb	Y value is -46.9058. This lies outside the table values of 1.4332 and -2.4435					
18	0.25	Sed-Sb	Upper Confidence Limit (UCL)					
19	0.25	Sed-Sb						
20	0.25	Sed-Sb						
21	0.25	Sed-Sb						
22	0.25	Sed-Sb						
23	0.25	Sed-Sb						
24	0.25	Sed-Sb						
25	0.25	Sed-Sb						
26	0.25	Sed-Sb						
27	0.25	Sed-Sb						
28	0.25	Sed-Sb						
29	0.25	Sed-Sb						
30	2.5	Sed-Sb						
31	2.5	Sed-Sb						
32	2.5	Sed-Sb						
33	9.8	Sed-Sb						
34	9.8	Sed-Sb						
35	9.8	Sed-Sb						
36	9.8	Sed-Sb						
37	9.8	Sed-Sb						
38	9.8	Sed-Sb						
39	9.8	Sed-Sb						
40	9.8	Sed-Sb						
41	9.8	Sed-Sb						
42	9.8	Sed-Sb						
43	9.8	Sed-Sb						
44	9.8	Sed-Sb						
45	9.8	Sed-Sb						
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48	9.8	Sed-Sb						
49	9.8	Sed-Sb						
50	9.8	Sed-Sb						
51	9.8	Sed-Sb						
52	9.8	Sed-Sb						
53	9.8	Sed-Sb						
54	9.8	Sed-Sb						
55	9.8	Sed-Sb						
56	9.8	Sed-Sb						
57	9.8	Sed-Sb						
58	9.8	Sed-Sb						
59	9.8	Sed-Sb						
60	9.8	Sed-Sb						
61	9.8	Sed-Sb						
62	9.8	Sed-Sb						
63	9.8	Sed-Sb						
64	9.8	Sed-Sb						
65	9.8	Sed-Sb						
66	9.8	Sed-Sb						
67	9.8	Sed-Sb						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Antimony
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	102
N Used :	157
Mean :	14.215
Variance:	320.035
Std. Dev:	17.890
% C.V. :	125.850
Skewness:	5.779
Kurtosis:	44.618
Minimum :	.050
25th % :	9.800
Median :	9.800
75th % :	20.650
Maximum :	166.000

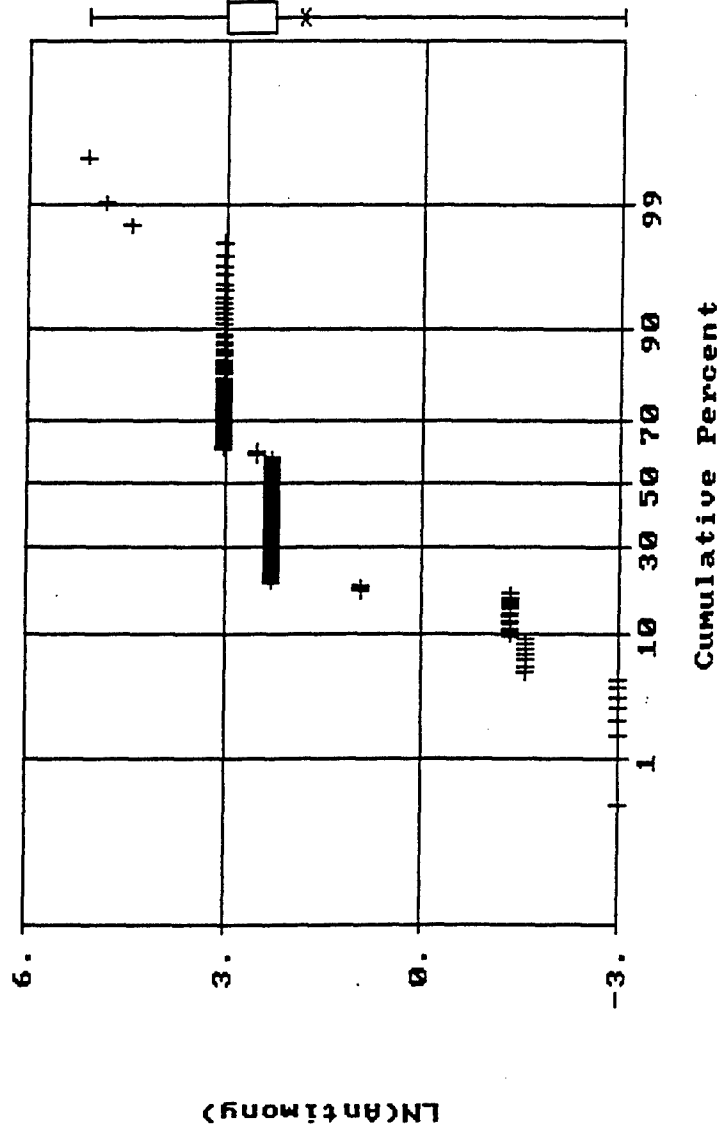


ALL DEFECTS

Normal Probability Plot for LN(Antimony)
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	102
N Used :	157
Mean :	1.838
Variance:	3.398
Std. Dev:	1.843
% C.V. :	100.284
Skewness:	-1.484
Kurtosis:	3.981
Minimum :	-2.996
25th % :	2.282
Median :	2.282
75th % :	3.028
Maximum :	5.112



Background data analysis

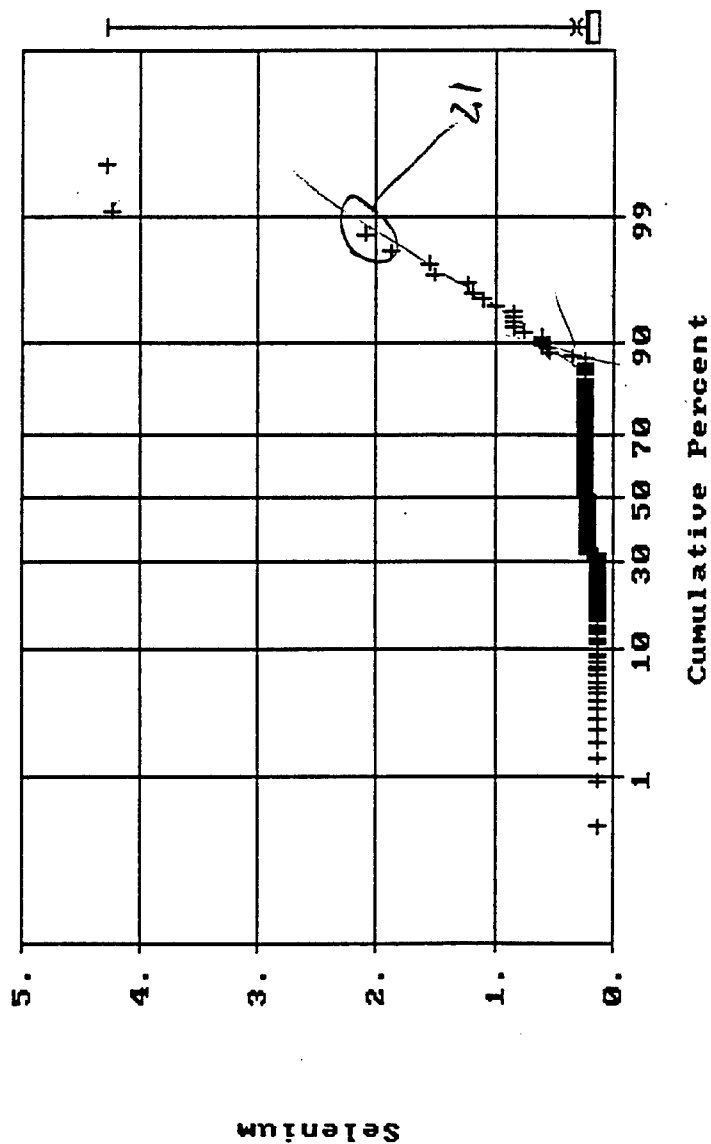
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Sed-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Sed-Se	Uncensored	172	Mean	0.321	Create report	
4	0.125	Sed-Se	Censored		Lognormal mean	0.277	Clear all	
5	0.125	Sed-Se	Detection limit or PQL	-----	Std. devn.	0.523	Histogram	
6	0.125	Sed-Se	Method detection limit	-----	Median	0.208	5	10
7	0.125	Sed-Se	TOTAL	172	Min.	0.125	20	
8	0.125	Sed-Se	ENTER DATA		Max	4.2857	Clear messages	
9	0.125	Sed-Se	Distribution Decision				Calculate UCL	
10	0.125	Sed-Se	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.125	Sed-Se	Lognormal distribution?		Normal distribution?		Normal	
12	0.125	Sed-Se	r-squared is: 0.688		r-squared is: 0.337		Neither	
13	0.125	Sed-Se	Recommendations				Sample size	
14	0.125	Sed-Se	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.125	Sed-Se						
16	0.125	Sed-Se						
17	0.125	Sed-Se						
18	0.125	Sed-Se						
19	0.125	Sed-Se						
20	0.125	Sed-Se						
21	0.125	Sed-Se						
22	0.125	Sed-Se						
23	0.125	Sed-Se						
24	0.125	Sed-Se						
25	0.125	Sed-Se						
26	0.125	Sed-Se						
27	0.125	Sed-Se						
28	0.125	Sed-Se						
29	0.125	Sed-Se						
30	0.125	Sed-Se						
31	0.125	Sed-Se						
32	0.125	Sed-Se						
33	0.125	Sed-Se						
34	0.125	Sed-Se						
35	0.125	Sed-Se						
36	0.125	Sed-Se						
37	0.125	Sed-Se						
38	0.125	Sed-Se						
39	0.125	Sed-Se						
40	0.125	Sed-Se						
41	0.125	Sed-Se						
42	0.125	Sed-Se						
43	0.125	Sed-Se						
44	0.125	Sed-Se						
45	0.125	Sed-Se						
46	0.125	Sed-Se						
47	0.125	Sed-Se						
48	0.125	Sed-Se						
49	0.125	Sed-Se						
50	0.125	Sed-Se						
51	0.125	Sed-Se						
52	0.125	Sed-Se						
53	0.125	Sed-Se						
54	0.125	Sed-Se						
55	0.125	Sed-Se						
56	0.125	Sed-Se						
57	0.208	Sed-Se						
58	0.208	Sed-Se						
59	0.208	Sed-Se						
60	0.208	Sed-Se						
61	0.208	Sed-Se						
62	0.208	Sed-Se						
63	0.208	Sed-Se						
64	0.208	Sed-Se						
65	0.208	Sed-Se						
66	0.208	Sed-Se						
67	0.208	Sed-Se						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Sed-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Sed-Se	Uncensored	172	Mean	0.321	Create report	
4	0.125	Sed-Se	Censored		Lognormal mean	0.277	Clear all	
5	0.125	Sed-Se	Detection limit or PQL	-----	Std. devn.	0.523	Histogram	
6	0.125	Sed-Se	Method detection limit	-----	Median	0.208	5 10 20	
7	0.125	Sed-Se	TOTAL	172	Min.	0.125		
8	0.125	Sed-Se	ENTER DATA		Max	4.2857		
9	0.125	Sed-Se	Distribution Decision					
10	0.125	Sed-Se	Probability plot method		W test	D'Agostino's test		
11	0.125	Sed-Se	Lognormal distribution?		Normal distribution?			
12	0.125	Sed-Se	r-squared is: 0.688		r-squared is: 0.337			
13	0.125	Sed-Se	Recommendations:					
14	0.125	Sed-Se	Reject lognormal distribution.					
15	0.125	Sed-Se	Y value is -25.3805. This lies outside the tabled values of 1.4551 and -2.4252					
16	0.125	Sed-Se	Reject normal distribution.					
17	0.125	Sed-Se	Y value is -62.5802. This lies outside the tabled values of 1.4551 and -2.4252					
18	0.125	Sed-Se	Upper Confidence Limit (UCL)					
19	0.125	Sed-Se						
20	0.125	Sed-Se						
21	0.125	Sed-Se						
22	0.125	Sed-Se						
23	0.125	Sed-Se						
24	0.125	Sed-Se						
25	0.125	Sed-Se						
26	0.125	Sed-Se						
27	0.125	Sed-Se						
28	0.125	Sed-Se						
29	0.125	Sed-Se						
30	0.125	Sed-Se						
31	0.125	Sed-Se						
32	0.125	Sed-Se						
33	0.125	Sed-Se						
34	0.125	Sed-Se						
35	0.125	Sed-Se						
36	0.125	Sed-Se						
37	0.125	Sed-Se						
38	0.125	Sed-Se						
39	0.125	Sed-Se						
40	0.125	Sed-Se						
41	0.125	Sed-Se						
42	0.125	Sed-Se						
43	0.125	Sed-Se						
44	0.125	Sed-Se						
45	0.125	Sed-Se						
46	0.125	Sed-Se						
47	0.125	Sed-Se						
48	0.125	Sed-Se						
49	0.125	Sed-Se						
50	0.125	Sed-Se						
51	0.125	Sed-Se						
52	0.125	Sed-Se						
53	0.125	Sed-Se						
54	0.125	Sed-Se						
55	0.125	Sed-Se						
56	0.125	Sed-Se						
57	0.208	Sed-Se						
58	0.208	Sed-Se						
59	0.208	Sed-Se						
60	0.208	Sed-Se						
61	0.208	Sed-Se						
62	0.208	Sed-Se						
63	0.208	Sed-Se						
64	0.208	Sed-Se						
65	0.208	Sed-Se						
66	0.208	Sed-Se						
67	0.208	Sed-Se						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

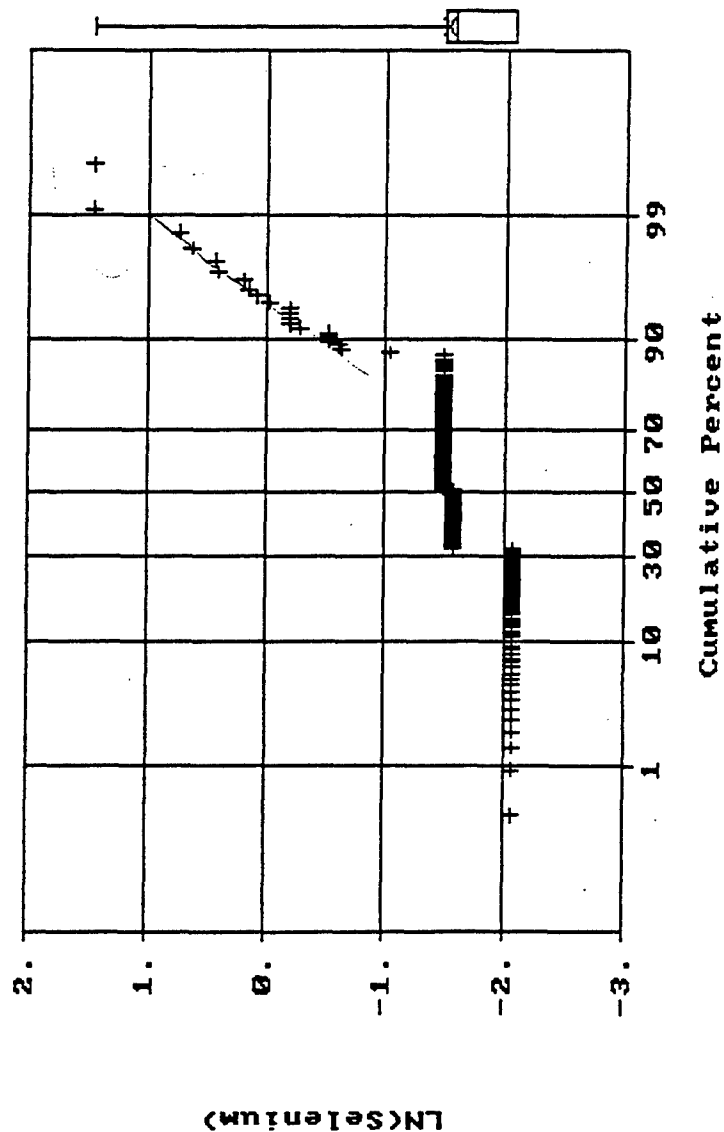
Normal Probability Plot for Selenium
Data file: sed-all.dat



S t a t i s t i c s

N Total :	259
N Miss :	87
N Used :	172
Mean :	.321
Variance:	.274
Std. Dev:	.523
% C.V. :	162.935
Skewness:	5.627
Kurtosis:	39.541
Minimum :	.125
25th % :	.125
Median :	.208
75th % :	.225
Maximum :	4.286

Normal Probability Plot for LN(Selenium)
Data file: sed-all.dat



Statistics

N Total	:	259
N Miss	:	87
N Used	:	172
Mean	:	-1.509
Variance	:	.448
Std. Dev.	:	.669
% C.V.	:	44.336
Skewness	:	2.156
Kurtosis	:	8.238
Minimum	:	-2.079
25th %	:	-2.079
Median	:	-1.570
75th %	:	-1.494
Maximum	:	1.455

e 1.43 - 1.412

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Sed-Ti	Number of samples		Uncensored values		Sort data	
3	0.081	Sed-Ti	Uncensored	111	Mean	9.747	Create report	
4	0.081	Sed-Ti	Censored		Lognormal mean	54.646	Clear all	
5	0.081	Sed-Ti	Detection limit or PQL	-----	Std. devn.	8.401	Histogram	
6	0.081	Sed-Ti	Method detection limit	-----	Median	17.15	5	10
7	0.081	Sed-Ti	TOTAL	111	Min.	0.081	20	
8	0.081	Sed-Ti	ENTER DATA		Max	17.15		
9	0.081	Sed-Ti	Distribution Decision					
10	0.081	Sed-Ti	Probability plot method		W test	D'Agostino's test		
11	0.081	Sed-Ti	Lognormal distribution?		Normal distribution?			
12	0.081	Sed-Ti	r-squared is: 0.657		r-squared is: 0.652			
13	0.081	Sed-Ti	Recommendations:					
14	0.081	Sed-Ti	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.081	Sed-Ti						
16	0.081	Sed-Ti						
17	0.081	Sed-Ti						
18	0.081	Sed-Ti						
19	0.081	Sed-Ti						
20	0.081	Sed-Ti						
21	0.081	Sed-Ti	Upper Confidence Limit (UCL)					
22	0.081	Sed-Ti						
23	0.081	Sed-Ti						
24	0.081	Sed-Ti						
25	0.081	Sed-Ti						
26	0.081	Sed-Ti						
27	0.081	Sed-Ti						
28	0.081	Sed-Ti						
29	0.081	Sed-Ti						
30	0.081	Sed-Ti						
31	0.081	Sed-Ti						
32	0.081	Sed-Ti						
33	0.081	Sed-Ti						
34	0.081	Sed-Ti						
35	0.081	Sed-Ti						
36	0.081	Sed-Ti						
37	0.081	Sed-Ti						
38	0.081	Sed-Ti						
39	0.081	Sed-Ti						
40	0.087	Sed-Ti						
41	0.087	Sed-Ti						
42	0.087	Sed-Ti						
43	0.1	Sed-Ti						
44	0.1	Sed-Ti						
45	0.1	Sed-Ti						
46	0.1	Sed-Ti						
47	2.5	Sed-Ti						
48	2.5	Sed-Ti						
49	2.5	Sed-Ti						
50	7.35	Sed-Ti						
51	17.15	Sed-Ti						
52	17.15	Sed-Ti						
53	17.15	Sed-Ti						
54	17.15	Sed-Ti						
55	17.15	Sed-Ti						
56	17.15	Sed-Ti						
57	17.15	Sed-Ti						
58	17.15	Sed-Ti						
59	17.15	Sed-Ti						
60	17.15	Sed-Ti						
61	17.15	Sed-Ti						
62	17.15	Sed-Ti						
63	17.15	Sed-Ti						
64	17.15	Sed-Ti						
65	17.15	Sed-Ti						
66	17.15	Sed-Ti						
67	17.15	Sed-Ti						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

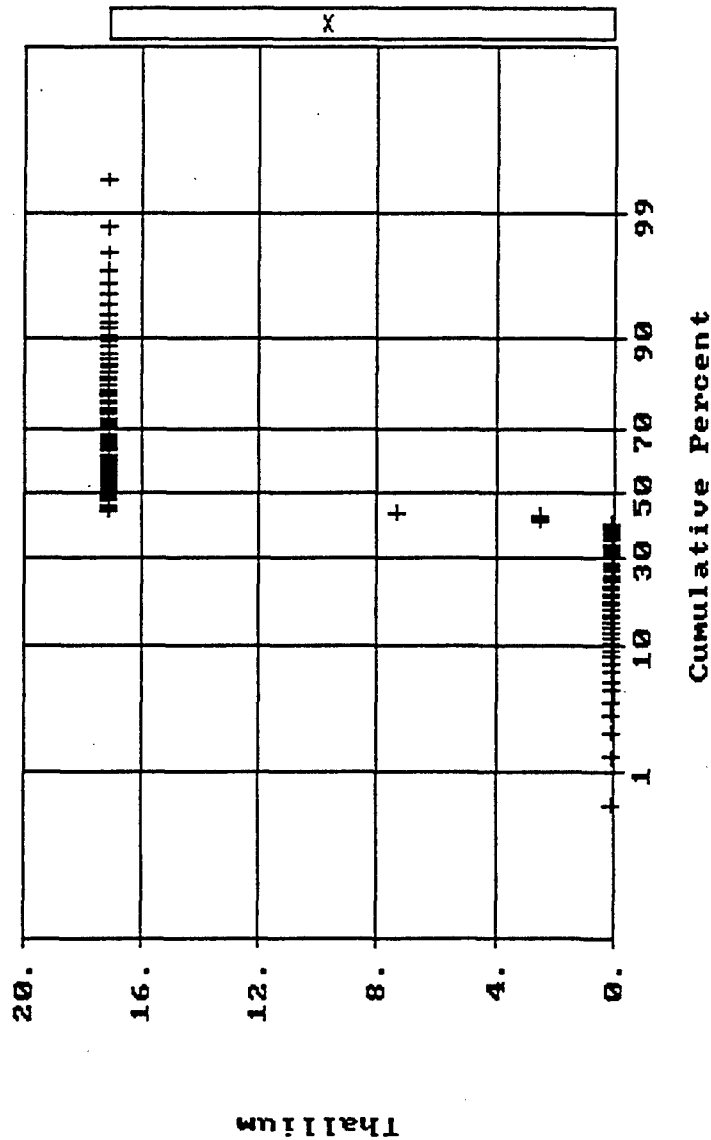
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Sed-TI	Number of samples: 111				Sort data	
3	0.081	Sed-TI	Uncensored values				Create report	
4	0.081	Sed-TI	Uncensored	111	Mean	9.747	Clear all	
5	0.081	Sed-TI	Censored	-----	Lognormal mean	54.646	Histogram	
6	0.081	Sed-TI	Detection limit or PQL	-----	Std. devn.	8.401	5	10
7	0.081	Sed-TI	Method detection limit	-----	Median	17.15	20	
8	0.081	Sed-TI	TOTAL	111	Min.	0.081		
9	0.081	Sed-TI	ENTER DATA		Max	17.15	Clear messages	
10	0.081	Sed-TI	Distribution Decision				Calculate UCL	
11	0.081	Sed-TI	Probability plot method		W test	D'Agostino's test	Lognormal	
12	0.081	Sed-TI	Lognormal distribution?		Normal distribution?		Normal	
13	0.081	Sed-TI	r-squared is: 0.657		r-squared is: 0.652		Neither	
14	0.081	Sed-TI	Recommendations					
15	0.081	Sed-TI	Reject lognormal distribution.					
16	0.081	Sed-TI	Y value is -11.0126. This lies outside the table values of 1.3294 and -2.53					
17	0.081	Sed-TI	Reject normal distribution.					
18	0.081	Sed-TI	Y value is -11.1079. This lies outside the table values of 1.3294 and -2.53					
19	0.081	Sed-TI	Upper Confidence Limit (UCL)					
20	0.081	Sed-TI						
21	0.081	Sed-TI						
22	0.081	Sed-TI						
23	0.081	Sed-TI						
24	0.081	Sed-TI						
25	0.081	Sed-TI						
26	0.081	Sed-TI						
27	0.081	Sed-TI						
28	0.081	Sed-TI						
29	0.081	Sed-TI						
30	0.081	Sed-TI						
31	0.081	Sed-TI						
32	0.081	Sed-TI						
33	0.081	Sed-TI						
34	0.081	Sed-TI						
35	0.081	Sed-TI						
36	0.081	Sed-TI						
37	0.081	Sed-TI						
38	0.081	Sed-TI						
39	0.081	Sed-TI						
40	0.087	Sed-TI						
41	0.087	Sed-TI						
42	0.087	Sed-TI						
43	0.1	Sed-TI						
44	0.1	Sed-TI						
45	0.1	Sed-TI						
46	0.1	Sed-TI						
47	2.5	Sed-TI						
48	2.5	Sed-TI						
49	2.5	Sed-TI						
50	7.35	Sed-TI						
51	17.15	Sed-TI						
52	17.15	Sed-TI						
53	17.15	Sed-TI						
54	17.15	Sed-TI						
55	17.15	Sed-TI						
56	17.15	Sed-TI						
57	17.15	Sed-TI						
58	17.15	Sed-TI						
59	17.15	Sed-TI						
60	17.15	Sed-TI						
61	17.15	Sed-TI						
62	17.15	Sed-TI						
63	17.15	Sed-TI						
64	17.15	Sed-TI						
65	17.15	Sed-TI						
66	17.15	Sed-TI						
67	17.15	Sed-TI						

Normal Probability Plot for Thallium
Data file: sed-all.dat

S t a t i s t i c s

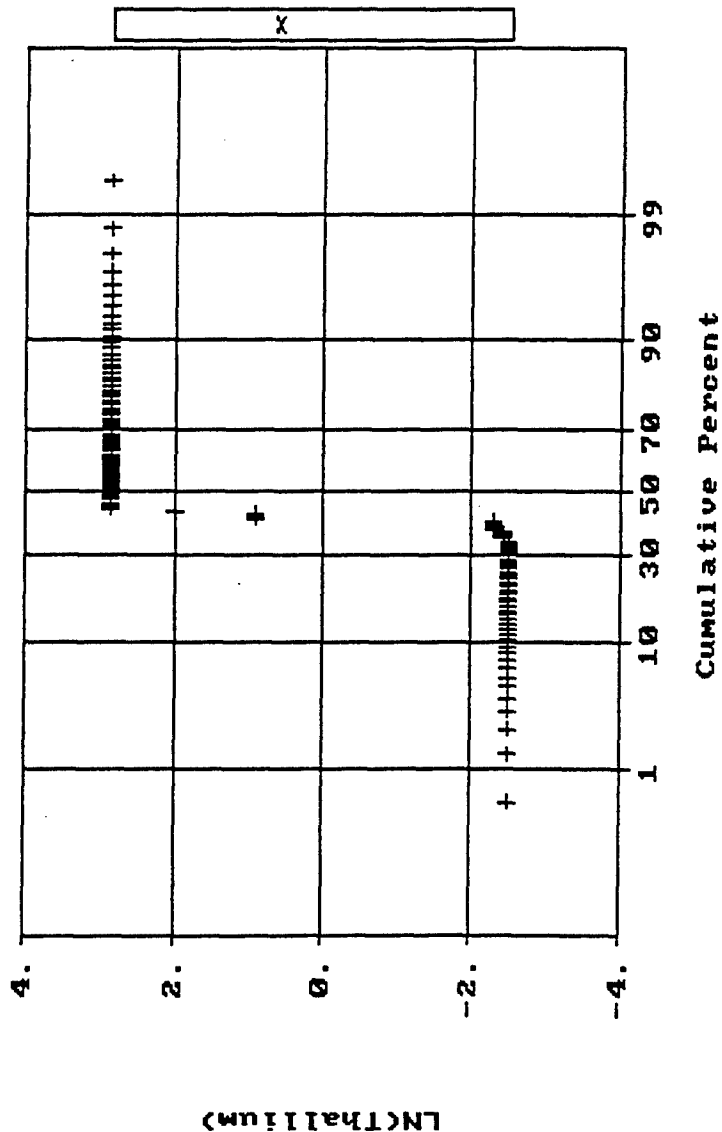
N Total :	259
N Miss :	148
N Used :	111
Mean :	9.747
Variance:	70.580
Std. Dev:	8.401
% C.V. :	86.195
Skewness:	-.256
Kurtosis:	1.081
Minimum :	.081
25th % :	.081
Median :	17.150
75th % :	17.150
Maximum :	17.150



Normal Probability Plot for LN(Thallium)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	148
N Used :	111
Mean :	.621
Variance :	6.760
Std. Dev :	2.600
% C.V. :	418.839
Skewness :	-.350
Kurtosis :	1.151
Minimum :	-2.513
25th % :	-2.513
Median :	2.842
75th % :	2.842
Maximum :	2.842



USELESS

Background data analysis

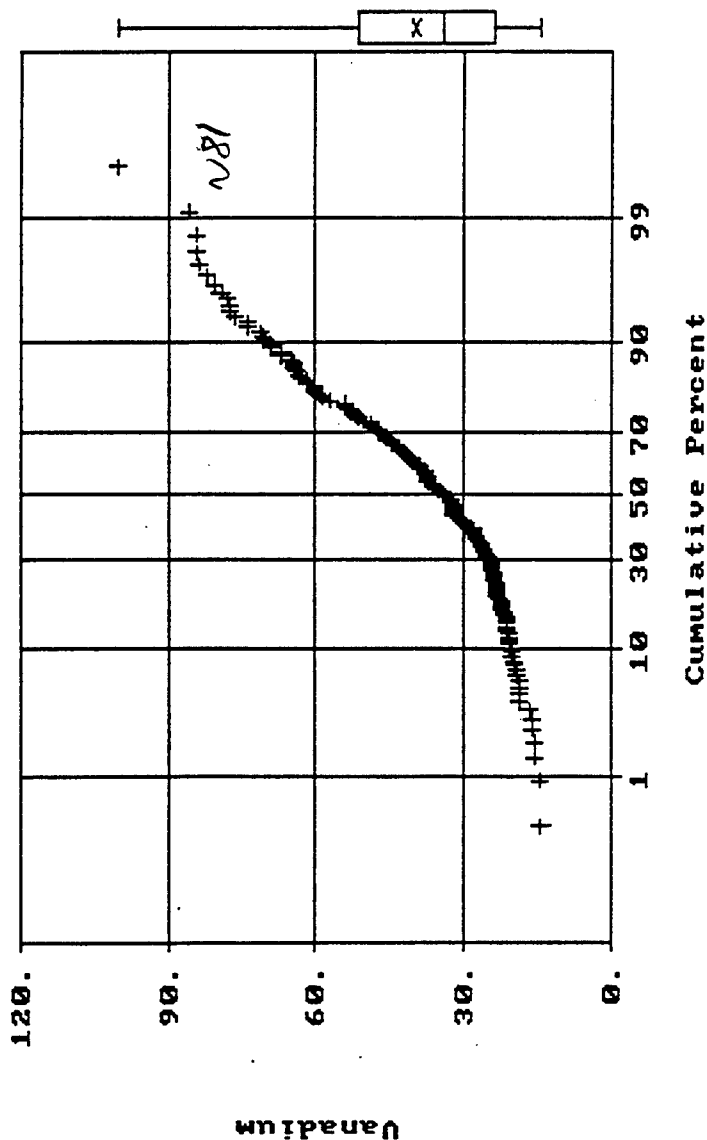
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	14.1807	Sed-V	Number of samples				Sort data	
3	14.5641	Sed-V	Uncensored values				Create report	
4	15.7068	Sed-V	Uncensored	171	Mean	39.630	Clear all	
5	15.7113	Sed-V	Censored		Lognormal mean	39.600	Histogram	
6	16.167	Sed-V	Detection limit or PQL		Std. devn.	19.214	5 10 20	
7	16.2133	Sed-V	Method detection limit		Median	34		
8	16.3722	Sed-V	TOTAL	171	Min.	14.1807	Clear messages	
9	18.4713	Sed-V	ENTER DATA		Max	100	Calculate UCL	
10	18.6	Sed-V	Distribution Decision					
11	18.696	Sed-V	Probability plot method		W test	D'Agostino's test	Lognormal	
12	18.7	Sed-V	Lognormal distribution?		Normal distribution?		Normal	
13	19.062	Sed-V	r-squared is: 0.971		r-squared is: 0.909		Neither	
14	19.3585	Sed-V	Recommendations					
15	19.4969	Sed-V	Use lognormal distribution.					
16	19.7166	Sed-V						
17	20.1042	Sed-V						
18	20.3077	Sed-V						
19	20.6	Sed-V						
20	20.625	Sed-V						
21	20.7637	Sed-V	Upper Confidence Limit (UCL)					
22	20.809	Sed-V						
23	20.913	Sed-V						
24	21	Sed-V						
25	21.2645	Sed-V						
26	21.341	Sed-V						
27	21.4	Sed-V						
28	21.4	Sed-V						
29	21.6	Sed-V						
30	21.881	Sed-V						
31	22	Sed-V						
32	22.3	Sed-V						
33	22.3	Sed-V						
34	22.351	Sed-V						
35	22.6474	Sed-V						
36	23.1	Sed-V						
37	23.1579	Sed-V						
38	23.2	Sed-V						
39	23.2295	Sed-V						
40	23.266	Sed-V						
41	23.5233	Sed-V						
42	23.6	Sed-V						
43	23.612	Sed-V						
44	23.7	Sed-V						
45	23.741	Sed-V						
46	23.8055	Sed-V						
47	24.1228	Sed-V						
48	24.2	Sed-V						
49	24.2	Sed-V						
50	24.3	Sed-V						
51	24.524	Sed-V						
52	24.8	Sed-V						
53	25	Sed-V						
54	25.1	Sed-V						
55	25.251	Sed-V						
56	25.928	Sed-V						
57	26.081	Sed-V						
58	26.094	Sed-V						
59	26.291	Sed-V						
60	26.4	Sed-V						
61	26.6593	Sed-V						
62	27.0903	Sed-V						
63	27.518	Sed-V						
64	27.584	Sed-V						
65	27.8361	Sed-V						
66	27.8634	Sed-V						
67	27.9	Sed-V						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	14.1807	Sed-V	Number of samples		Uncensored values		Sort data	
3	14.5641	Sed-V	Uncensored	171	Mean	39.630	Create report	
4	15.7068	Sed-V	Censored		Lognormal mean	39.600	Clear all	
5	15.7113	Sed-V	Detection limit or PQL	-----	Std. devn.	19.214	Histogram	
6	16.167	Sed-V	Method detection limit	-----	Median	34	5	10
7	16.2133	Sed-V	TOTAL	171	Min.	14.1807	20	
8	16.3722	Sed-V	ENTER DATA		Max	100		
9	18.4713	Sed-V	Distribution Decision					
10	18.6	Sed-V	Probability plot method		W test	D'Agostino's test		
11	18.696	Sed-V	Lognormal distribution?		Normal distribution?			
12	18.7	Sed-V	r-squared is: 0.971		r-squared is: 0.909			
13	19.062	Sed-V	Recommendations					
14	19.3585	Sed-V	Reject lognormal distribution.					
15	19.4969	Sed-V	Y value is 2.0967. This lies outside the tabled values of 1.4537 and -2.4264					
16	19.7166	Sed-V	Reject normal distribution.					
17	20.1042	Sed-V	Y value is -3.1159. This lies outside the tabled values of 1.4537 and -2.4264					
18	20.3077	Sed-V	Upper Confidence Limit (UCL)					
19	20.6	Sed-V						
20	20.625	Sed-V						
21	20.7637	Sed-V						
22	20.809	Sed-V						
23	20.913	Sed-V						
24	21	Sed-V						
25	21.2645	Sed-V						
26	21.341	Sed-V						
27	21.4	Sed-V						
28	21.4	Sed-V						
29	21.6	Sed-V						
30	21.881	Sed-V						
31	22	Sed-V						
32	22.3	Sed-V						
33	22.3	Sed-V						
34	22.351	Sed-V						
35	22.6474	Sed-V						
36	23.1	Sed-V						
37	23.1579	Sed-V						
38	23.2	Sed-V						
39	23.2295	Sed-V						
40	23.266	Sed-V						
41	23.5233	Sed-V						
42	23.6	Sed-V						
43	23.612	Sed-V						
44	23.7	Sed-V						
45	23.741	Sed-V						
46	23.8055	Sed-V						
47	24.1228	Sed-V						
48	24.2	Sed-V						
49	24.2	Sed-V						
50	24.3	Sed-V						
51	24.524	Sed-V						
52	24.8	Sed-V						
53	25	Sed-V						
54	25.1	Sed-V						
55	25.251	Sed-V						
56	25.928	Sed-V						
57	26.081	Sed-V						
58	26.094	Sed-V						
59	26.291	Sed-V						
60	26.4	Sed-V						
61	26.6593	Sed-V						
62	27.0903	Sed-V						
63	27.518	Sed-V						
64	27.584	Sed-V						
65	27.8361	Sed-V						
66	27.8634	Sed-V						
67	27.9	Sed-V						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Vanadium
Data file: sed-all.dat



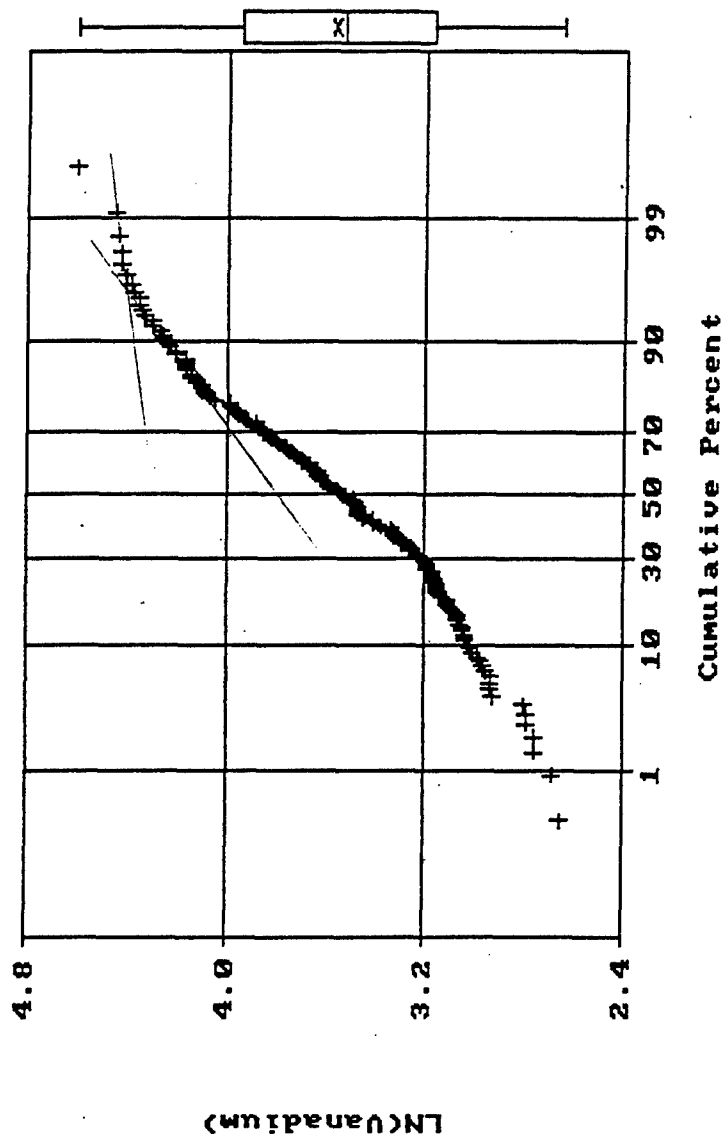
Statistics

N Total :	259
N Miss :	88
N Used :	171
Mean :	39.630
Variance:	369.184
Std. Dev:	19.214
% C.V. :	48.484
Skewness:	.872
Kurtosis:	2.832
Minimum :	14.181
25th % :	23.678
Median :	34.000
75th % :	51.525
Maximum :	100.000

Normal Probability Plot for LN(Vanadium)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	88
N Used :	171
Mean :	3.569
Variance:	.219
Std. Dev:	.468
% C.V. :	13.126
Skewness:	.206
Kurtosis:	2.012
Minimum :	2.652
25th % :	3.165
Median :	3.526
75th % :	3.942
Maximum :	4.605



4.4-81

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.12	Sed-Zn	Number of samples		Uncensored values		Sort data	
3	12.63	Sed-Zn	Uncensored	185	Mean	72.954	Create report	
4	12.71	Sed-Zn	Censored		Lognormal mean	60.856	Clear all	
5	13.15	Sed-Zn	Detection limit or PQL	-----	Std. devn.	143.655	Histogram	
6	13.52	Sed-Zn	Method detection limit		Median	33.9	5 10 20	
7	13.8	Sed-Zn	TOTAL	185	Min.	11.12	Clear messages	
8	14.21	Sed-Zn	ENTER DATA		Max	1500	Calculate UCL	
9	14.24	Sed-Zn	Distribution Decision				Lognormal	
10	14.71	Sed-Zn	Probability plot method		W test	D'Agostino's test	Normal	
11	14.76	Sed-Zn	Lognormal distribution?		Normal distribution?		Neither	
12	14.86	Sed-Zn	r-squared is: 0.900		r-squared is: 0.367		Sample size	
13	14.9	Sed-Zn	Recommendations					
14	15.01	Sed-Zn	Use lognormal distribution.					
15	15.16	Sed-Zn						
16	15.84	Sed-Zn						
17	16.23	Sed-Zn						
18	16.63	Sed-Zn						
19	16.73	Sed-Zn						
20	16.93	Sed-Zn						
21	17.08	Sed-Zn						
22	17.2	Sed-Zn						
23	17.32	Sed-Zn						
24	17.53	Sed-Zn						
25	17.53	Sed-Zn						
26	17.89	Sed-Zn						
27	18	Sed-Zn						
28	18	Sed-Zn						
29	18	Sed-Zn						
30	18	Sed-Zn						
31	18	Sed-Zn						
32	18	Sed-Zn						
33	18	Sed-Zn						
34	18.1	Sed-Zn						
35	18.59	Sed-Zn						
36	18.6	Sed-Zn						
37	19.16	Sed-Zn						
38	19.19	Sed-Zn						
39	19.3	Sed-Zn						
40	19.5	Sed-Zn						
41	19.52	Sed-Zn						
42	19.57	Sed-Zn						
43	19.7	Sed-Zn						
44	19.83	Sed-Zn						
45	20.3	Sed-Zn						
46	20.44	Sed-Zn						
47	20.8	Sed-Zn						
48	21.08	Sed-Zn						
49	21.2	Sed-Zn						
50	22	Sed-Zn						
51	22.1	Sed-Zn						
52	22.29	Sed-Zn						
53	22.4	Sed-Zn						
54	22.5	Sed-Zn						
55	22.8	Sed-Zn						
56	22.9	Sed-Zn						
57	23	Sed-Zn						
58	23.1	Sed-Zn						
59	23.14	Sed-Zn						
60	23.3	Sed-Zn						
61	24.5	Sed-Zn						
62	24.6	Sed-Zn						
63	24.9	Sed-Zn						
64	25	Sed-Zn						
65	25.4	Sed-Zn						
66	25.44	Sed-Zn						
67	25.5	Sed-Zn						

Background data analysis

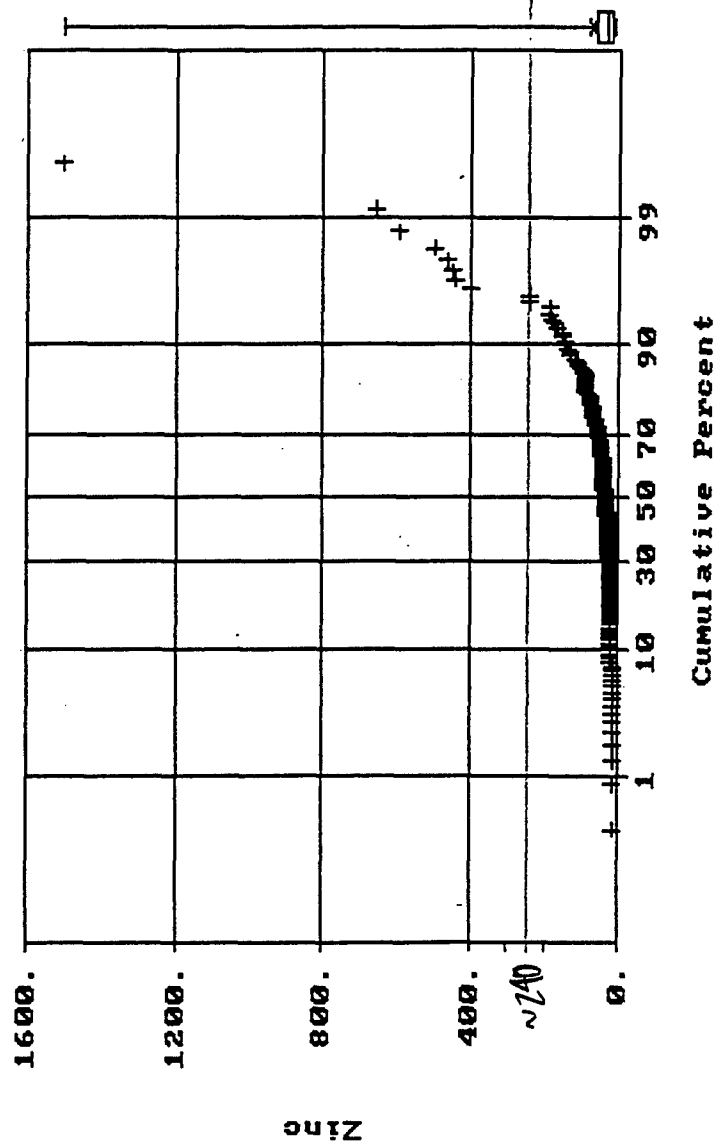
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.12	Sed-Zn	Number of samples		Uncensored values		Sort data	
3	12.63	Sed-Zn	Uncensored	185	Mean	72.954	Create report	
4	12.71	Sed-Zn	Censored		Lognormal mean	60.856	Clear all	
5	13.15	Sed-Zn	Detection limit or PQL		Std. devn.	143.655	Histogram	
6	13.52	Sed-Zn	Method detection limit		Median	33.9	5 10 20	
7	13.8	Sed-Zn	TOTAL	185	Min.	11.12		
8	14.21	Sed-Zn	ENTER DATA		Max	1500		
9	14.24	Sed-Zn	Distribution Decision					
10	14.71	Sed-Zn	Probability plot method		W test	D'Agostino's test		
11	14.76	Sed-Zn	Lognormal distribution?		Normal distribution?			
12	14.86	Sed-Zn	r-squared is: 0.900		r-squared is: 0.367			
13	14.9	Sed-Zn	Recommendations:					
14	15.01	Sed-Zn	Reject lognormal distribution.					
15	15.16	Sed-Zn	Y value is -7.1435. This lies outside the tabled values of 1.4741 and -2.4093					
16	15.84	Sed-Zn	Reject normal distribution.					
17	16.23	Sed-Zn	Y value is -60.6935. This lies outside the tabled values of 1.4741 and -2.4093					
18	16.63	Sed-Zn	Upper Confidence Limit (UCL)					
19	16.73	Sed-Zn						
20	16.93	Sed-Zn						
21	17.08	Sed-Zn						
22	17.2	Sed-Zn						
23	17.32	Sed-Zn						
24	17.53	Sed-Zn						
25	17.53	Sed-Zn						
26	17.89	Sed-Zn						
27	18	Sed-Zn						
28	18	Sed-Zn						
29	18	Sed-Zn						
30	18	Sed-Zn						
31	18	Sed-Zn						
32	18	Sed-Zn						
33	18	Sed-Zn						
34	18.1	Sed-Zn						
35	18.59	Sed-Zn						
36	18.6	Sed-Zn						
37	19.16	Sed-Zn						
38	19.19	Sed-Zn						
39	19.3	Sed-Zn						
40	19.5	Sed-Zn						
41	19.52	Sed-Zn						
42	19.57	Sed-Zn						
43	19.7	Sed-Zn						
44	19.83	Sed-Zn						
45	20.3	Sed-Zn						
46	20.44	Sed-Zn						
47	20.8	Sed-Zn						
48	21.08	Sed-Zn						
49	21.2	Sed-Zn						
50	22	Sed-Zn						
51	22.1	Sed-Zn						
52	22.29	Sed-Zn						
53	22.4	Sed-Zn						
54	22.5	Sed-Zn						
55	22.8	Sed-Zn						
56	22.9	Sed-Zn						
57	23	Sed-Zn						
58	23.1	Sed-Zn						
59	23.14	Sed-Zn						
60	23.3	Sed-Zn						
61	24.5	Sed-Zn						
62	24.6	Sed-Zn						
63	24.9	Sed-Zn						
64	25	Sed-Zn						
65	25.4	Sed-Zn						
66	25.44	Sed-Zn						
67	25.5	Sed-Zn						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Zinc
Data file: sed-all.dat

S t a t i s t i c s

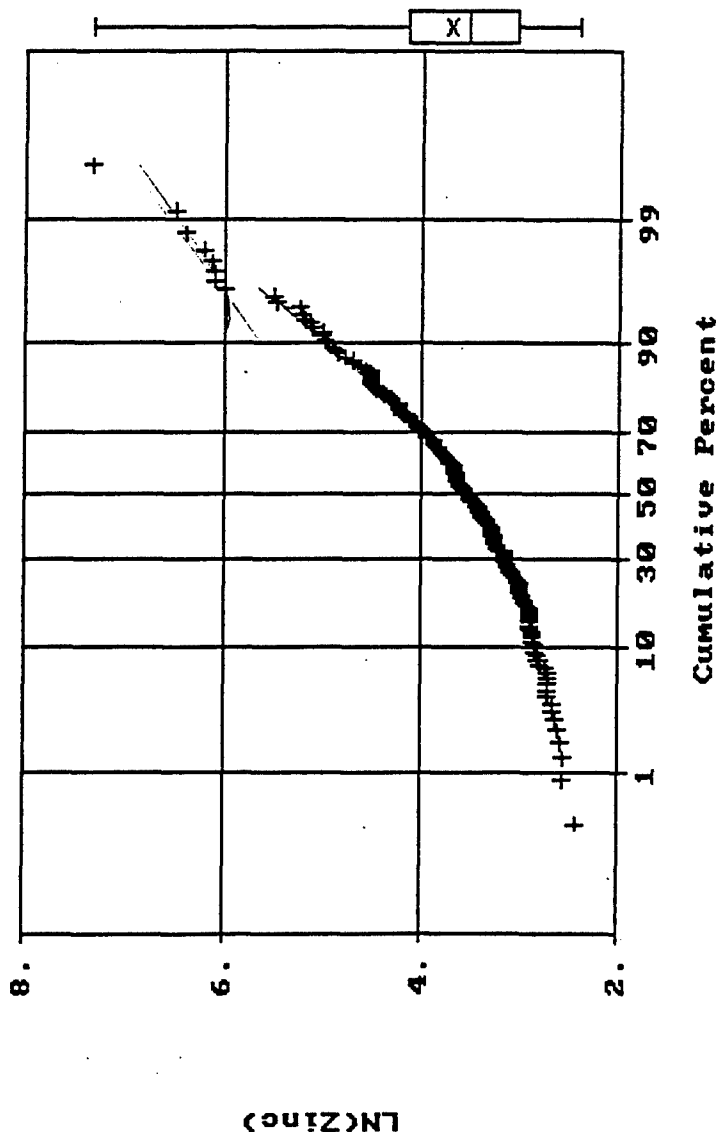
N Total :	259
N Miss :	74
N Used :	185
Mean :	72.954
Variance:	20636.840
Std. Dev:	143.655
% C.V. :	196.912
Skewness:	6.470
Kurtosis:	57.001
Minimum :	11.120
25th % :	20.870
Median :	33.900
75th % :	64.215
Maximum :	1500.000



Normal Probability Plot for LN(Zinc)
Data file: sed-all.dat

S t a t i s t i c s

N Total :	259
N Miss :	74
N Used :	185
Mean :	3.711
Variance:	.795
Std. Dev:	.892
% C.V. :	24.036
Skewness:	1.283
Kurtosis:	4.742
Minimum :	2.409
25th % :	3.038
Median :	3.523
75th % :	4.162
Maximum :	7.313



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Sed-Ag					Sort data	
3	0.005	Sed-Ag					Create report	
4	0.005	Sed-Ag					Clear all	
5	0.005	Sed-Ag					Histogram	
6	0.2	Sed-Ag					5 10 20	
7	0.2	Sed-Ag					Clear messages	
8	0.2	Sed-Ag					Calculate UCL	
9	0.2	Sed-Ag					Lognormal	
10	0.2	Sed-Ag					Normal	
11	0.2	Sed-Ag					Neither	
12	0.2	Sed-Ag					Sample size	
13	0.2	Sed-Ag						
14	0.2	Sed-Ag						
15	0.25	Sed-Ag						
16	0.25	Sed-Ag						
17	0.25	Sed-Ag						
18	0.25	Sed-Ag						
19	0.25	Sed-Ag						
20	0.25	Sed-Ag						
21	0.25	Sed-Ag						
22	0.25	Sed-Ag						
23	0.25	Sed-Ag						
24	0.25	Sed-Ag						
25	0.25	Sed-Ag						
26	0.25	Sed-Ag						
27	0.25	Sed-Ag						
28	0.25	Sed-Ag						
29	0.25	Sed-Ag						
30	0.25	Sed-Ag						
31	0.25	Sed-Ag						
32	0.25	Sed-Ag						
33	0.25	Sed-Ag						
34	0.25	Sed-Ag						
35	0.25	Sed-Ag						
36	0.25	Sed-Ag						
37	0.25	Sed-Ag						
38	0.25	Sed-Ag						
39	0.25	Sed-Ag						
40	0.25	Sed-Ag						
41	0.25	Sed-Ag						
42	0.25	Sed-Ag						
43	0.25	Sed-Ag						
44	0.25	Sed-Ag						
45	0.2605	Sed-Ag						
46	0.2605	Sed-Ag						
47	0.2605	Sed-Ag						
48	0.2605	Sed-Ag						
49	0.2605	Sed-Ag						
50	0.2605	Sed-Ag						
51	0.2605	Sed-Ag						
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53	0.2605	Sed-Ag						
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57	0.2605	Sed-Ag						
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60	0.2605	Sed-Ag						
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62	0.2605	Sed-Ag						
63	0.2605	Sed-Ag						
64	0.2605	Sed-Ag						
65	0.2605	Sed-Ag						
66	0.2605	Sed-Ag						
67	0.2605	Sed-Ag						

Uncensored values

Uncensored	167	Mean	0.398
Censored		Lognormal mean	0.447
Detection limit or PQL		Std. devn.	0.252
Method detection limit		Median	0.4015
TOTAL	167	Min.	0.005
		Max.	1.65

ENTER DATA

Distribution Decision

Probability plot method	W test	D'Agostino's test
-------------------------	--------	-------------------

Lognormal distribution? Normal distribution?

r-squared is: 0.618 r-squared is: 0.717

Recommendations:

Reject BOTH lognormal and normal distributions. See Statistics Guidance.

Upper Confidence Limit (UCL)

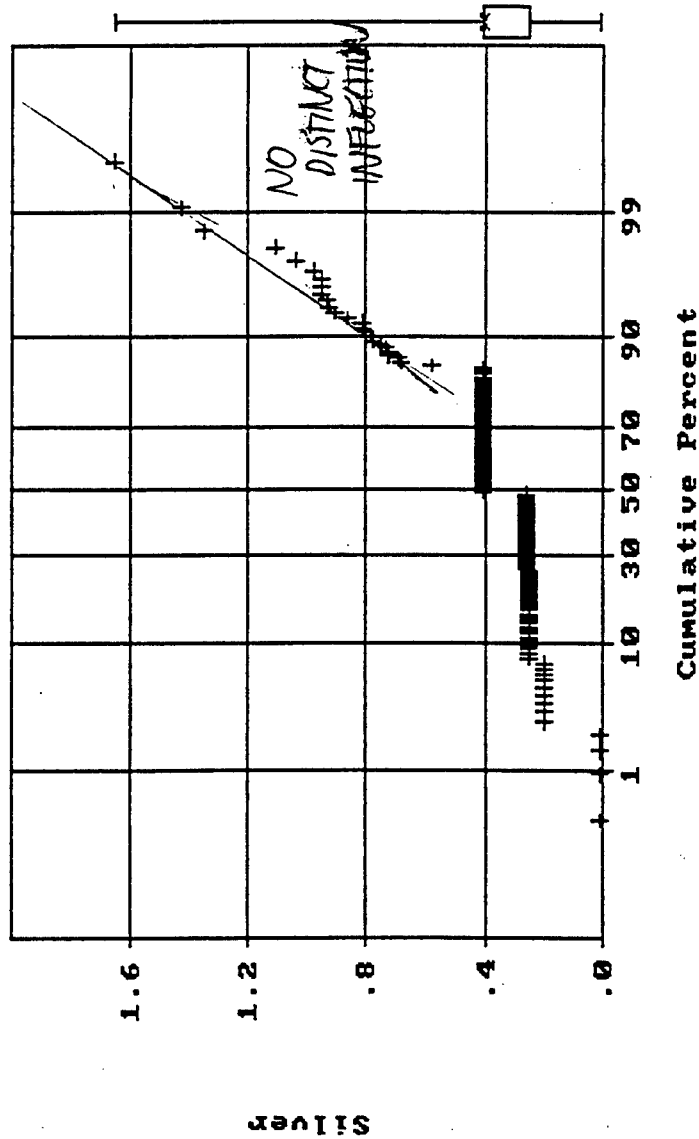
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Sed-Ag	Number of samples		Uncensored values		Sort data	
3	0.005	Sed-Ag	Uncensored	167	Mean	0.398	Create report	
4	0.005	Sed-Ag	Censored		Lognormal mean	0.447	Clear all	
5	0.005	Sed-Ag	Detection limit or PQL	-----	Std. devn.	0.252	Histogram	
6	0.2	Sed-Ag	Method detection limit		Median	0.4015	5 10 20	
7	0.2	Sed-Ag	TOTAL	167	Min.	0.005		
8	0.2	Sed-Ag	ENTER DATA		Max.	1.85	Clear messages	
9	0.2	Sed-Ag	Distribution Decision				Calculate UCL	
10	0.2	Sed-Ag	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.2	Sed-Ag	Lognormal distribution?		Normal distribution?		Normal	
12	0.2	Sed-Ag	r-squared is: 0.618		r-squared is: 0.717		Neither	
13	0.2	Sed-Ag	Recommendations:					
14	0.2	Sed-Ag	Reject lognormal distribution.					
15	0.25	Sed-Ag	Y value is -34.0512. This lies outside the tabled values of 1.4478 and -2.4313					
16	0.25	Sed-Ag	Reject normal distribution.					
17	0.25	Sed-Ag	Y value is -24.1223. This lies outside the tabled values of 1.4478 and -2.4313					
18	0.25	Sed-Ag	Upper Confidence Limit (UCL)					
19	0.25	Sed-Ag						
20	0.25	Sed-Ag						
21	0.25	Sed-Ag						
22	0.25	Sed-Ag						
23	0.25	Sed-Ag						
24	0.25	Sed-Ag						
25	0.25	Sed-Ag						
26	0.25	Sed-Ag						
27	0.25	Sed-Ag						
28	0.25	Sed-Ag						
29	0.25	Sed-Ag						
30	0.25	Sed-Ag						
31	0.25	Sed-Ag						
32	0.25	Sed-Ag						
33	0.25	Sed-Ag						
34	0.25	Sed-Ag						
35	0.25	Sed-Ag						
36	0.25	Sed-Ag						
37	0.25	Sed-Ag						
38	0.25	Sed-Ag						
39	0.25	Sed-Ag						
40	0.25	Sed-Ag						
41	0.25	Sed-Ag						
42	0.25	Sed-Ag						
43	0.25	Sed-Ag						
44	0.25	Sed-Ag						
45	0.2605	Sed-Ag						
46	0.2605	Sed-Ag						
47	0.2605	Sed-Ag						
48	0.2605	Sed-Ag						
49	0.2605	Sed-Ag						
50	0.2605	Sed-Ag						
51	0.2605	Sed-Ag						
52	0.2605	Sed-Ag						
53	0.2605	Sed-Ag						
54	0.2605	Sed-Ag						
55	0.2605	Sed-Ag						
56	0.2605	Sed-Ag						
57	0.2605	Sed-Ag						
58	0.2605	Sed-Ag						
59	0.2605	Sed-Ag						
60	0.2605	Sed-Ag						
61	0.2605	Sed-Ag						
62	0.2605	Sed-Ag						
63	0.2605	Sed-Ag						
64	0.2605	Sed-Ag						
65	0.2605	Sed-Ag						
66	0.2605	Sed-Ag						
67	0.2605	Sed-Ag						

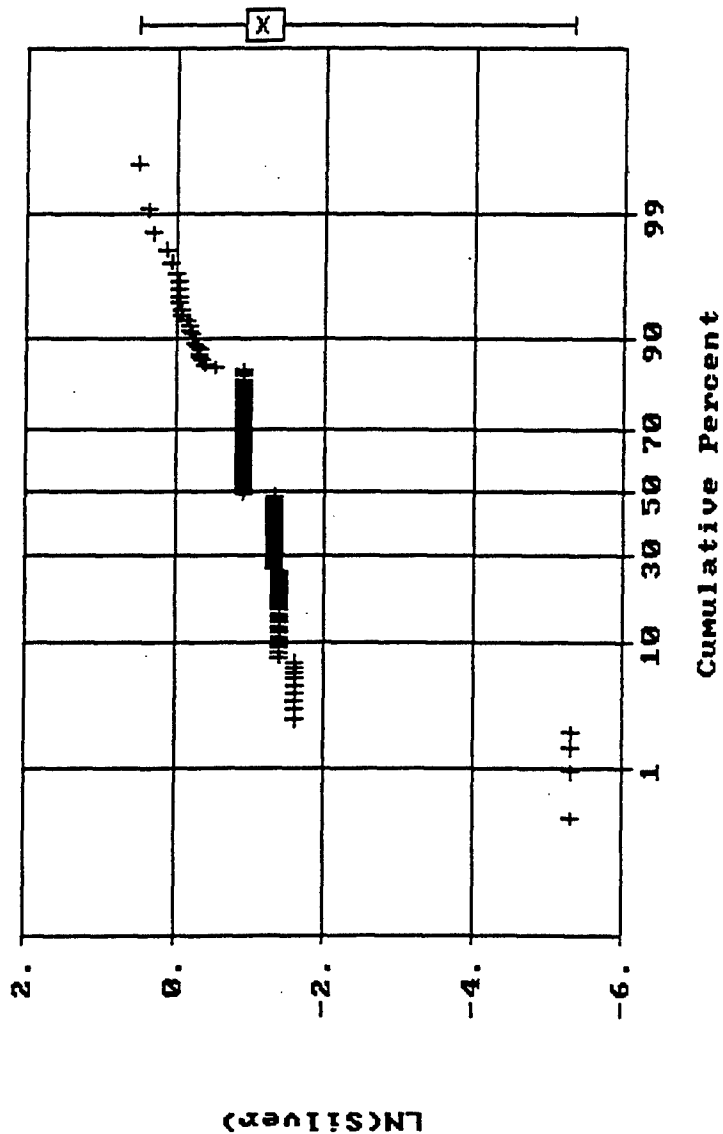
Normal Probability Plot for Silver
Data file: sed-all.dat

Statistics

N Total :	259
N Miss :	92
N Used :	167
Mean :	.398
Variance :	.064
Std. Dev :	.252
% C.V. :	63.394
Skewness :	2.177
Kurtosis :	8.706
Minimum :	.005
25th % :	.250
Median :	.401
75th % :	.401
Maximum :	1.650



Normal Probability Plot for LN(Silver)
Data file: sed-all.dat



S t a t i s t i c s

N Total :	259
N Miss :	92
N Used :	167
Mean :	-1.122
Variance :	.634
Std. Dev. :	.796
% C.V. :	70.967
Skewness :	-3.146
Kurtosis :	18.887
Minimum :	-5.298
25th % :	-1.386
Median :	-.913
75th % :	-.913
Maximum :	.501

Colma Formation

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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.25	Col-Ag	Number of samples		Uncensored values		Sort data	
3	0.25	Col-Ag	Uncensored	59	Mean	2.211	Create report	
4	0.25	Col-Ag	Censored		Lognormal mean	2.170	Clear all	
5	0.25	Col-Ag	Detection limit or PQL		Std. devn.	3.135	Histogram	
6	0.25	Col-Ag	Method detection limit		Median	0.4015	5	10
7	0.25	Col-Ag	TOTAL	59	Min.	0.25	20	
8	0.25	Col-Ag	ENTER DATA		Max	12.3	Clear messages	
9	0.25	Col-Ag	Distribution Decision				Calculate UCL	
10	0.25	Col-Ag	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.25	Col-Ag	Lognormal distribution?		Normal distribution?		Normal	
12	0.25	Col-Ag	r-squared is: 0.789		r-squared is: 0.685		Neither	
13	0.25	Col-Ag	Recommendations				Sample size	
14	0.25	Col-Ag	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.25	Col-Ag						
16	0.2605	Col-Ag	Upper Confidence Limit (UCL)					
17	0.2605	Col-Ag						
18	0.2605	Col-Ag						
19	0.2605	Col-Ag						
20	0.2605	Col-Ag						
21	0.2605	Col-Ag						
22	0.2605	Col-Ag						
23	0.2605	Col-Ag						
24	0.2605	Col-Ag						
25	0.2605	Col-Ag						
26	0.2605	Col-Ag						
27	0.2605	Col-Ag						
28	0.2605	Col-Ag						
29	0.2605	Col-Ag						
30	0.4015	Col-Ag						
31	0.4015	Col-Ag						
32	0.4015	Col-Ag						
33	0.4015	Col-Ag						
34	0.4015	Col-Ag						
35	0.4015	Col-Ag						
36	0.793	Col-Ag						
37	0.855	Col-Ag						
38	1.09	Col-Ag						
39	1.14	Col-Ag						
40	1.32	Col-Ag						
41	1.35	Col-Ag						
42	1.46	Col-Ag						
43	1.89	Col-Ag						
44	2.5	Col-Ag						
45	2.76	Col-Ag						
46	3.96	Col-Ag						
47	4.03	Col-Ag						
48	4.36	Col-Ag						
49	5.08	Col-Ag						
50	6.05	Col-Ag						
51	6.38	Col-Ag						
52	6.79	Col-Ag						
53	6.94	Col-Ag						
54	7.01	Col-Ag						
55	7.09	Col-Ag						
56	7.09	Col-Ag						
57	7.73	Col-Ag						
58	9.81	Col-Ag						
59	11.1	Col-Ag						
60	12.3	Col-Ag						
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Background data analysis

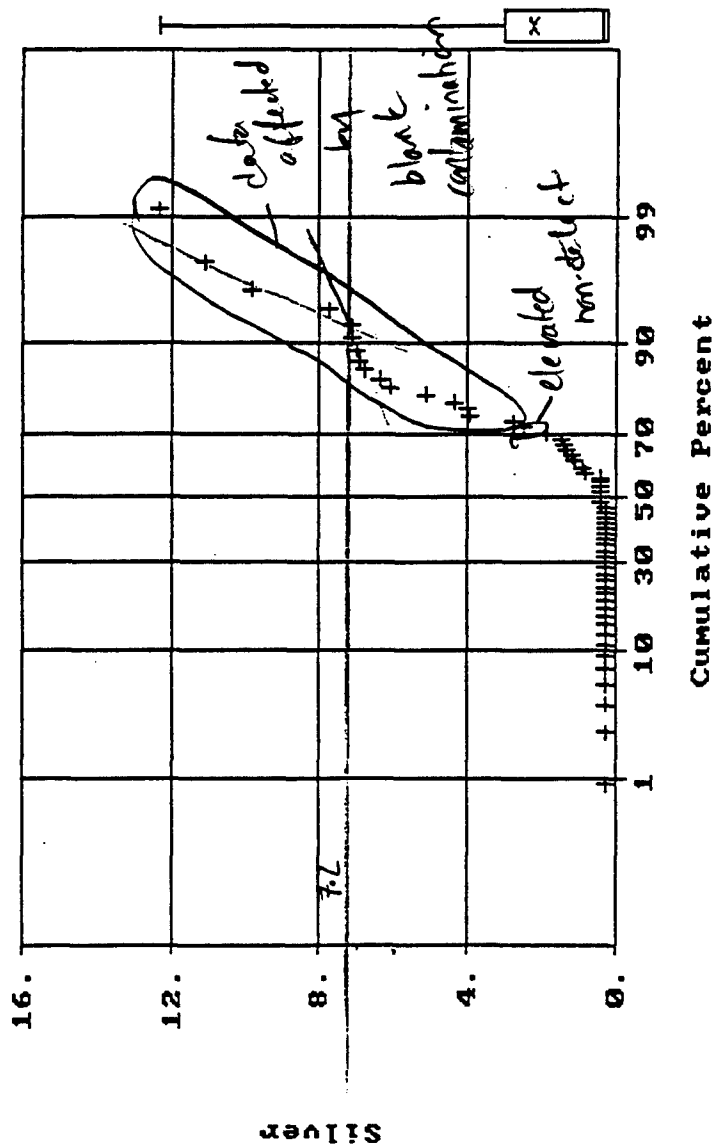
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.25	Col-Ag	Number of samples		Uncensored values		Sort data	
3	0.25	Col-Ag	Uncensored	59	Mean	2.211	Create report	
4	0.25	Col-Ag	Censored		Lognormal mean	2.170	Clear all	
5	0.25	Col-Ag	Detection limit or PQL		Std. devn.	3.135	Histogram	
6	0.25	Col-Ag	Method detection limit		Median	0.4015	5	10
7	0.25	Col-Ag	TOTAL	59	Min.	0.25	20	
8	0.25	Col-Ag	ENTER DATA		Max	12.3		
9	0.25	Col-Ag	Distribution Decision					
10	0.25	Col-Ag	Probability plot method		W test	D'Agostino's test		
11	0.25	Col-Ag	Lognormal distribution?		Normal distribution?			
12	0.25	Col-Ag	r-squared is: 0.789		r-squared is: 0.685			
13	0.25	Col-Ag	Recommendations					
14	0.25	Col-Ag	Reject lognormal distribution.					
15	0.25	Col-Ag	Y value is -4.3408. This lies outside the tabled values of 1.1073 and -2.7048					
16	0.2605	Col-Ag	Reject normal distribution.					
17	0.2605	Col-Ag	Y value is -12.4943. This lies outside the tabled values of 1.1073 and -2.7048					
18	0.2605	Col-Ag	Upper Confidence Limit (UCL)					
19	0.2605	Col-Ag						
20	0.2605	Col-Ag						
21	0.2605	Col-Ag						
22	0.2605	Col-Ag						
23	0.2605	Col-Ag						
24	0.2605	Col-Ag						
25	0.2605	Col-Ag						
26	0.2605	Col-Ag						
27	0.2605	Col-Ag						
28	0.2605	Col-Ag						
29	0.2605	Col-Ag						
30	0.4015	Col-Ag						
31	0.4015	Col-Ag						
32	0.4015	Col-Ag						
33	0.4015	Col-Ag						
34	0.4015	Col-Ag						
35	0.4015	Col-Ag						
36	0.793	Col-Ag						
37	0.855	Col-Ag						
38	1.09	Col-Ag						
39	1.14	Col-Ag						
40	1.32	Col-Ag						
41	1.35	Col-Ag						
42	1.46	Col-Ag						
43	1.89	Col-Ag						
44	2.5	Col-Ag						
45	2.76	Col-Ag						
46	3.96	Col-Ag						
47	4.03	Col-Ag						
48	4.36	Col-Ag						
49	5.08	Col-Ag						
50	6.05	Col-Ag						
51	6.38	Col-Ag						
52	6.79	Col-Ag						
53	6.94	Col-Ag						
54	7.01	Col-Ag						
55	7.09	Col-Ag						
56	7.09	Col-Ag						
57	7.73	Col-Ag						
58	9.81	Col-Ag						
59	11.1	Col-Ag						
60	12.3	Col-Ag						
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Silver M_1
Data file: col-all.dat

S t a t i s t i c s

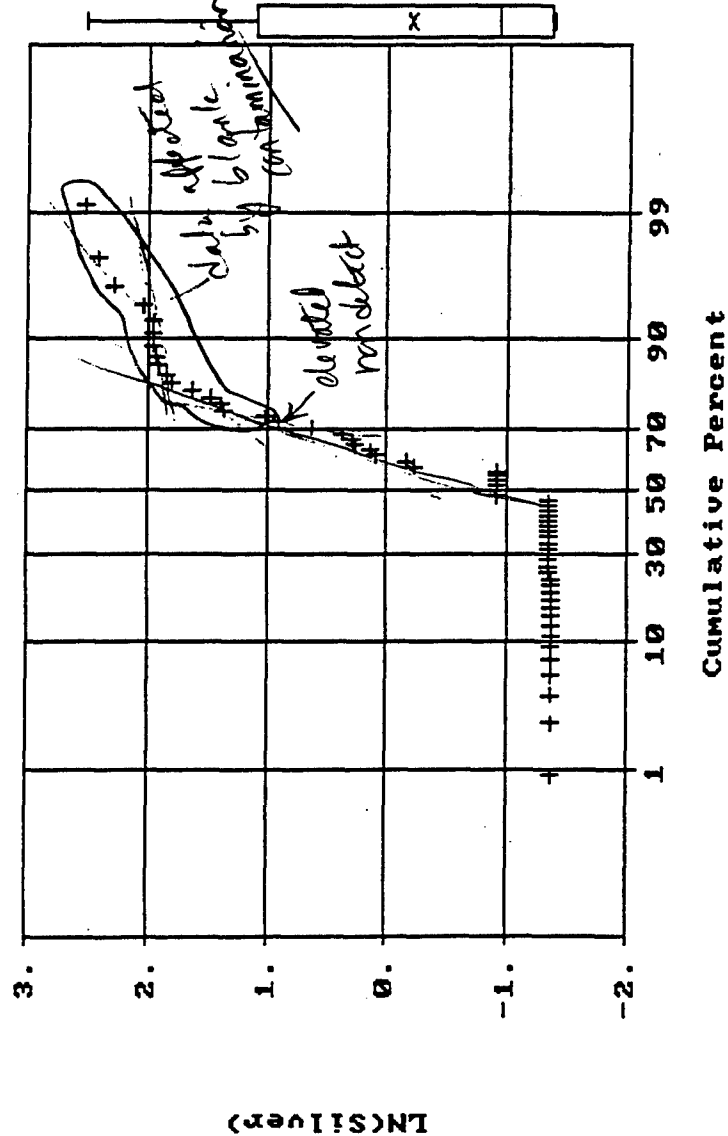
N Total	:	62
N Miss	:	3
N Used	:	59
Mean	:	2.211
Variance	:	9.826
Std. Dev.	:	3.135
% C.V.	:	141.790
Skewness	:	1.581
Kurtosis	:	4.466
Minimum	:	.250
25th %	:	.258
Median	:	.401
75th %	:	3.060
Maximum	:	12.300



Normal Probability Plot for LN(Silver)
Data file: col-all.dat

Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	-.201
Variance :	1.952
Std. Dev :	1.397
% C.V. :	693.951
Skewness :	.682
Kurtosis :	1.808
Minimum :	-1.386
25th % :	-1.355
Median :	-.913
75th % :	1.105
Maximum :	2.510



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3830	Col-AI	Number of samples		Uncensored values		Sort data	
3	4030	Col-AI	Uncensored	59	Mean	11466.023	Create report	
4	4200	Col-AI	Censored		Lognormal mean	11426.592	Clear all	
5	4800	Col-AI	Detection limit or PQL		Std. devn.	6633.431	Histogram	
6	5120	Col-AI	Method detection limit		Median	9900	5	10
7	5130	Col-AI	TOTAL	59	Min.	3830	20	
8	5132.7434	Col-AI	ENTER DATA		Max	33975.785	Clear messages	
9	5170	Col-AI	Distribution Decision				Calculate UCL	
10	5170	Col-AI	Probability plot method		W test	D'Agostino's test	Lognormal	
11	5290	Col-AI	Lognormal distribution?		Normal distribution?		Normal	
12	6160	Col-AI	r-squared is: 0.979		r-squared is: 0.833		Neither	
13	6540	Col-AI	Recommendations				Sample size	
14	6700	Col-AI	Use lognormal distribution.					
15	6940	Col-AI						
16	6950	Col-AI						
17	7013.5747	Col-AI						
18	7200	Col-AI						
19	7200	Col-AI						
20	7230	Col-AI						
21	7623.3184	Col-AI						
22	7900	Col-AI						
23	8425.027	Col-AI						
24	8500	Col-AI						
25	8602.52	Col-AI						
26	8907.7413	Col-AI						
27	8962.2642	Col-AI						
28	9100	Col-AI						
29	9300	Col-AI						
30	9485.2136	Col-AI						
31	9900	Col-AI						
32	10000	Col-AI						
33	10340.3756	Col-AI						
34	11100	Col-AI						
35	11653.222	Col-AI						
36	12000	Col-AI						
37	12000	Col-AI						
38	12000	Col-AI						
39	12000	Col-AI						
40	12974.6835	Col-AI						
41	13000	Col-AI						
42	13000	Col-AI						
43	13000	Col-AI						
44	13000	Col-AI						
45	13000	Col-AI						
46	13400	Col-AI						
47	13853.531	Col-AI						
48	14000	Col-AI						
49	14549.6536	Col-AI						
50	15220.172	Col-AI						
51	15271.4932	Col-AI						
52	16143.4978	Col-AI						
53	16399.0826	Col-AI						
54	17843.244	Col-AI						
55	18000	Col-AI						
56	25942.8571	Col-AI						
57	26000	Col-AI						
58	29315.357	Col-AI						
59	31000	Col-AI						
60	33975.785	Col-AI						
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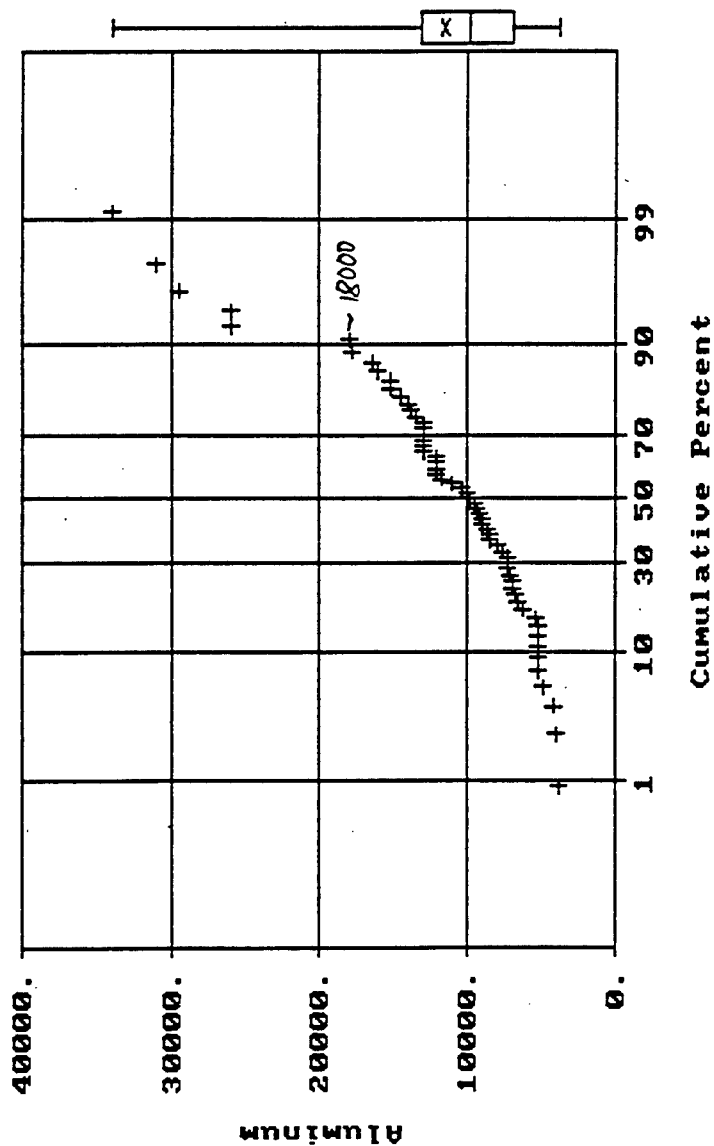
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3830	Col-AI	Number of samples		Uncensored values		Sort data	
3	4030	Col-AI	Uncensored	59	Mean	11466.023	Create report	
4	4200	Col-AI	Censored		Lognormal mean	11426.582	Clear all	
5	4800	Col-AI	Detection limit or PQL		Std. devn.	6633.431	Histogram	
6	5120	Col-AI	Method detection limit		Median	9900	5	10
7	5130	Col-AI	TOTAL	59	Min.	3830	20	
8	5132.7434	Col-AI	ENTER DATA		Max.	33975.785	Clear messages	
9	5170	Col-AI	Distribution Decision					
10	5170	Col-AI	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	5290	Col-AI	Lognormal distribution?		Normal distribution?		Lognormal	
12	6160	Col-AI	r-squared is: 0.979		r-squared is: 0.833		Normal	
13	6540	Col-AI	Recommendations:					
14	6700	Col-AI	Assume lognormal distribution.					
15	6940	Col-AI	Y value is -0.1464. This lies within the tabled values of -1.1073 and -2.7048					
16	6950	Col-AI	Upper Confidence Limit (UCL)					
17	7013.5747	Col-AI						
18	7200	Col-AI						
19	7200	Col-AI						
20	7230	Col-AI						
21	7623.3184	Col-AI						
22	7900	Col-AI						
23	8425.027	Col-AI						
24	8500	Col-AI						
25	8602.52	Col-AI						
26	8907.7413	Col-AI						
27	8962.2642	Col-AI						
28	9100	Col-AI						
29	9300	Col-AI						
30	9485.2136	Col-AI						
31	9900	Col-AI						
32	10000	Col-AI						
33	10340.3756	Col-AI						
34	11100	Col-AI						
35	11653.222	Col-AI						
36	12000	Col-AI						
37	12000	Col-AI						
38	12000	Col-AI						
39	12000	Col-AI						
40	12974.6835	Col-AI						
41	13000	Col-AI						
42	13000	Col-AI						
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44	13000	Col-AI						
45	13000	Col-AI						
46	13400	Col-AI						
47	13853.531	Col-AI						
48	14000	Col-AI						
49	14549.6536	Col-AI						
50	15220.172	Col-AI						
51	15271.4932	Col-AI						
52	16143.4978	Col-AI						
53	16399.0826	Col-AI						
54	17843.244	Col-AI						
55	18000	Col-AI						
56	25942.8571	Col-AI						
57	26000	Col-AI						
58	29315.357	Col-AI						
59	31000	Col-AI						
60	33975.785	Col-AI						
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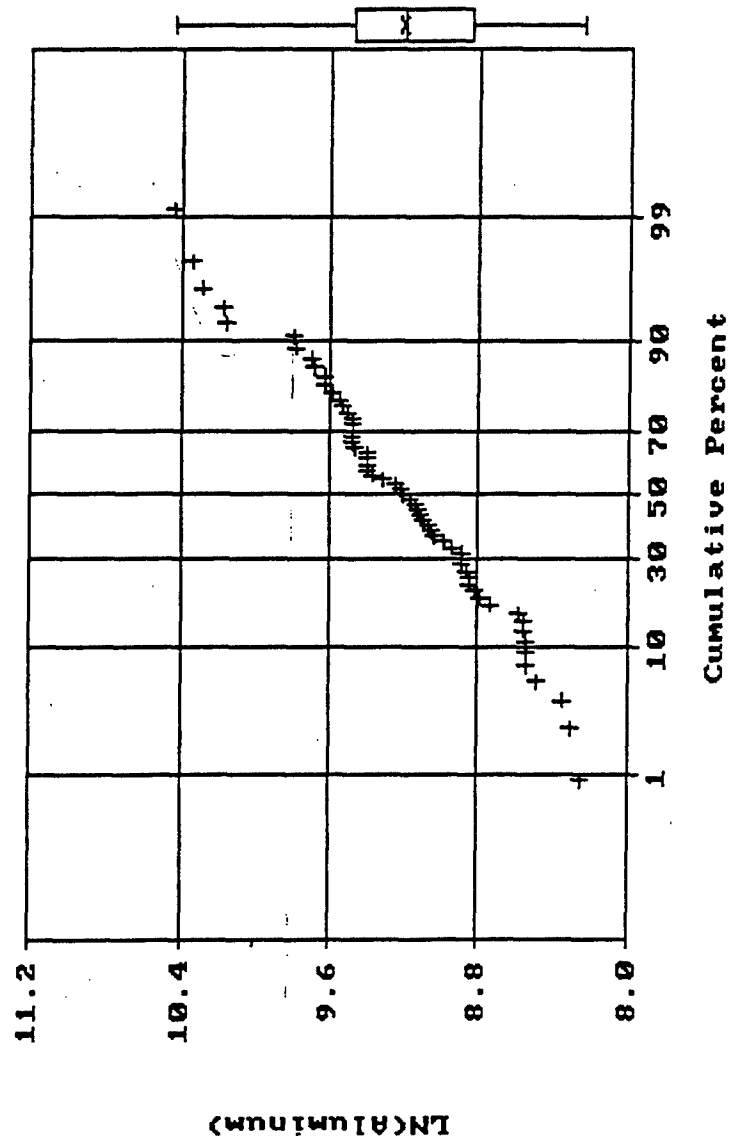
Normal Probability Plot for Aluminum
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	11466.020
Variance :	44002410.000
Std. Dev :	6633.431
% C.V. :	57.853
Skewness :	1.635
Kurtosis :	5.644
Minimum :	3830.000
25th % :	6947.500
Median :	9900.000
75th % :	13100.000
Maximum :	33975.790



Normal Probability Plot for LN(Aluminum)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	9.210
Variance:	.267
Std. Dev:	.517
% C.V. :	5.610
Skewness:	.299
Kurtosis:	2.733
Minimum :	8.251
25th % :	8.846
Median :	9.200
75th % :	9.480
Maximum :	10.433

$e^{9.8} \approx 18,000$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.25	Col-As	Number of samples		Uncensored values		Sort data	
3	1.25	Col-As	Uncensored	41	Mean	2.889	Create report	
4	1.25	Col-As	Censored		Lognormal mean	2.918	Clear all	
5	1.25	Col-As	Detection limit or PQL		Std. devn.	1.212	Histogram	
6	1.25	Col-As	Method detection limit		Median	2.89	5	10
7	1.25	Col-As	TOTAL	41	Min.	1.25	20	
8	1.25	Col-As	ENTER DATA		Max	6.09	Clear messages	
9	1.41	Col-As	Distribution Decision					
10	1.4873	Col-As	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	1.5808	Col-As	Lognormal distribution?		Normal distribution?		Lognormal	
12	2.1256	Col-As	r-squared is: 0.930		r-squared is: 0.956		Normal	
13	2.13	Col-As	Recommendations:					
14	2.2013	Col-As	Use lognormal distribution.					
15	2.3113	Col-As						
16	2.3756	Col-As						
17	2.4423	Col-As						
18	2.67	Col-As						
19	2.7064	Col-As						
20	2.73	Col-As						
21	2.8	Col-As	Upper Confidence Limit (UCL)					
22	2.89	Col-As						
23	3	Col-As						
24	3.013	Col-As						
25	3.14	Col-As						
26	3.16	Col-As						
27	3.254	Col-As						
28	3.27	Col-As						
29	3.4	Col-As						
30	3.43	Col-As						
31	3.72	Col-As						
32	3.78	Col-As						
33	3.79	Col-As						
34	3.8643	Col-As						
35	3.87	Col-As						
36	4.26	Col-As						
37	4.31	Col-As						
38	4.46	Col-As						
39	4.51	Col-As						
40	4.51	Col-As						
41	5	Col-As						
42	6.09	Col-As						
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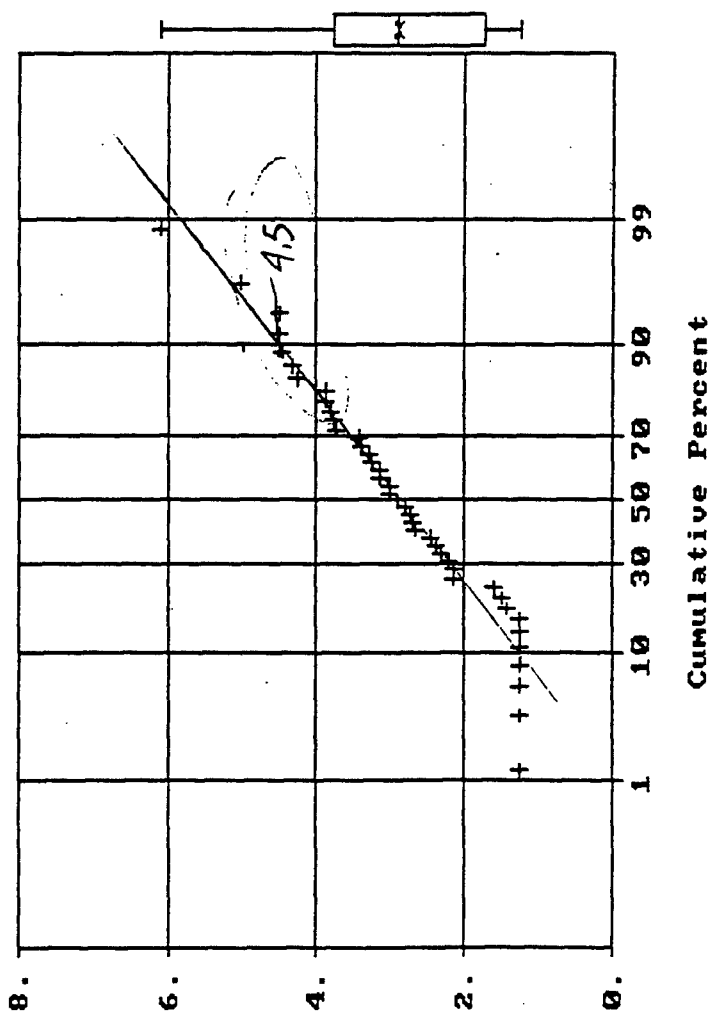
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.25	Col-As	Number of samples		Uncensored values		Sort data	
3	1.25	Col-As	Uncensored	41	Mean	2.889	Create report	
4	1.25	Col-As	Censored		Lognormal mean	2.918	Clear all	
5	1.25	Col-As	Detection limit or PQL	-----	Std. devn.	1.212	Histogram	
6	1.25	Col-As	Method detection limit		Median	2.89	5	10
7	1.25	Col-As	TOTAL	41	Min.	1.25	20	
8	1.25	Col-As	ENTER DATA		Max	6.09	Clear messages	
9	1.41	Col-As	Distribution Decision					
10	1.4873	Col-As	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	1.5908	Col-As	Lognormal distribution?		Normal distribution?		Lognormal	
12	2.1256	Col-As	r-squared is: 0.930		r-squared is: 0.955		Normal	
13	2.13	Col-As	Recommendations					
14	2.2013	Col-As	Reject lognormal distribution.					
15	2.3113	Col-As	W value is 0.9098. This is less than the tabled value of 0.941					
16	2.3756	Col-As	Assume normal distribution.					
17	2.4423	Col-As	W value is 0.9446. This exceeds the tabled value of 0.941					
18	2.67	Col-As	Upper Confidence Limit (UCL)					
19	2.7064	Col-As						
20	2.73	Col-As						
21	2.8	Col-As						
22	2.89	Col-As						
23	3	Col-As						
24	3.013	Col-As						
25	3.14	Col-As						
26	3.16	Col-As						
27	3.254	Col-As						
28	3.27	Col-As						
29	3.4	Col-As						
30	3.43	Col-As						
31	3.72	Col-As						
32	3.78	Col-As						
33	3.79	Col-As						
34	3.8643	Col-As						
35	3.87	Col-As						
36	4.26	Col-As						
37	4.31	Col-As						
38	4.46	Col-As						
39	4.51	Col-As						
40	4.51	Col-As						
41	5	Col-As						
42	6.09	Col-As						
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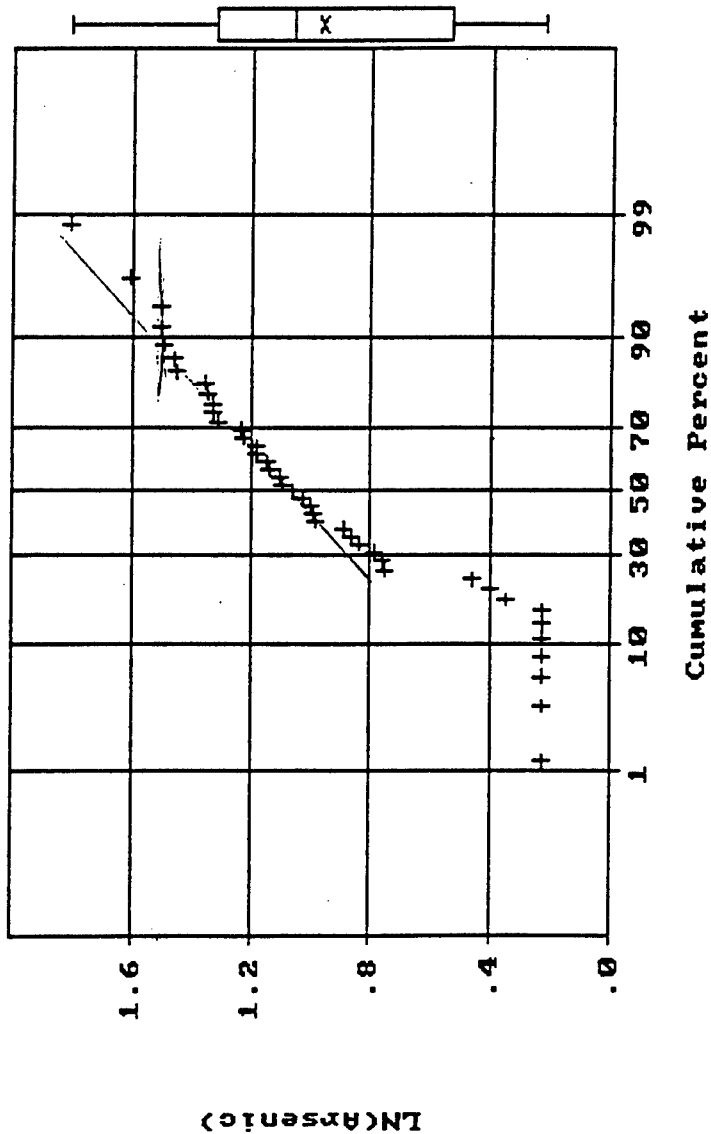
Normal Probability Plot for Arsenic
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	21
N Used :	41
Mean :	2.889
Variance:	1.469
Std. Dev:	1.212
% C.V. :	41.949
Skewness:	.337
Kurtosis:	2.607
Minimum :	1.250
25th % :	1.717
Median :	2.890
75th % :	3.765
Maximum :	6.090



Normal Probability Plot for LN(Arsenic)
Data file: col-all.dat



S t a t i s t i c s

N Total :	62
N Miss :	21
N Used :	41
Mean :	.965
Variance:	.212
Std. Dev:	.461
% C.V. :	47.726
Skewness:	-.399
Kurtosis:	2.050
Minimum :	.223
25th % :	.532
Median :	1.061
75th % :	1.326
Maximum :	1.807

$e^{1.5} \approx 4.5$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	13.9	Col-Ba	Number of samples		Uncensored values		Sort data	
3	14.6	Col-Ba	Uncensored	59	Mean	68.016	Create report	
4	14.6018	Col-Ba	Censored		Lognormal mean	69.327	Clear all	
5	15.6	Col-Ba	Detection limit or PQL		Std. devn.	43.671	Histogram	
6	18.5	Col-Ba	Method detection limit		Median	58.6	5	10
7	21.4	Col-Ba	TOTAL	59	Min.	13.9	20	
8	23.6	Col-Ba	ENTER DATA		Max.	233		
9	26.9353	Col-Ba	Distribution Decision					
10	27	Col-Ba	Probability plot method		W test	D'Agostino's test		
11	27.5	Col-Ba	Lognormal distribution?		Normal distribution?			
12	28.9	Col-Ba	r-squared is: 0.983		r-squared is: 0.903			
13	29.4	Col-Ba	Recommendations					
14	30.5	Col-Ba	Use lognormal distribution.					
15	31.9	Col-Ba						
16	35.1661	Col-Ba						
17	36.842	Col-Ba						
18	36.8545	Col-Ba						
19	39.2	Col-Ba						
20	39.3	Col-Ba						
21	40.3	Col-Ba	Upper Confidence Limit (UCL)					
22	40.9	Col-Ba						
23	41.1392	Col-Ba						
24	43.7021	Col-Ba						
25	43.8	Col-Ba						
26	47.5	Col-Ba						
27	49.6	Col-Ba						
28	54.5	Col-Ba						
29	55.6561	Col-Ba						
30	56	Col-Ba						
31	58.6	Col-Ba						
32	60.5	Col-Ba						
33	65.765	Col-Ba						
34	65.8665	Col-Ba						
35	68.8	Col-Ba						
36	68.8242	Col-Ba						
37	74.528	Col-Ba						
38	77.4	Col-Ba						
39	78.4	Col-Ba						
40	81.1	Col-Ba						
41	81.1927	Col-Ba						
42	82.2	Col-Ba						
43	82.3	Col-Ba						
44	83.1839	Col-Ba						
45	86.6	Col-Ba						
46	91.8632	Col-Ba						
47	95.8145	Col-Ba						
48	95.843	Col-Ba						
49	100	Col-Ba						
50	101	Col-Ba						
51	114.42	Col-Ba						
52	118.8341	Col-Ba						
53	121.1429	Col-Ba						
54	128	Col-Ba						
55	129	Col-Ba						
56	139	Col-Ba						
57	143	Col-Ba						
58	144	Col-Ba						
59	157.976	Col-Ba						
60	233	Col-Ba						
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Background data analysis

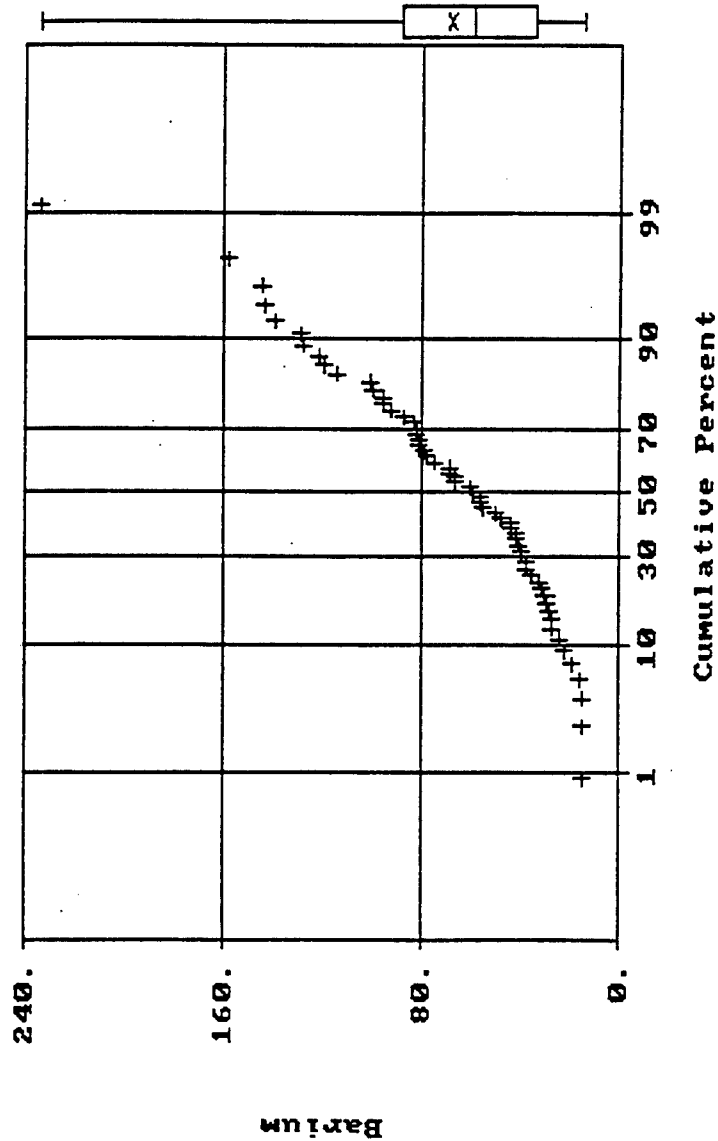
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	13.9	Col-Ba	Number of samples		Uncensored values		Sort data	
3	14.6	Col-Ba	Uncensored	59	Mean	68.016	Create report	
4	14.6018	Col-Ba	Censored		Lognormal mean	69.327	Clear all	
5	15.6	Col-Ba	Detection limit or PQL		Std. devn.	43.671	Histogram	
6	18.5	Col-Ba	Method detection limit		Median	58.6	5	10
7	21.4	Col-Ba	TOTAL	59	Min.	13.9	20	
8	23.6	Col-Ba	ENTER DATA		Max	233		
9	26.9353	Col-Ba	Distribution Decision					
10	27	Col-Ba	Probability plot method		W test	D'Agostino's test		
11	27.5	Col-Ba	Lognormal distribution?		Normal distribution?			
12	28.9	Col-Ba	r-squared is: 0.983		r-squared is: 0.903			
13	29.4	Col-Ba	Recommendations					
14	30.5	Col-Ba	Assume lognormal distribution.					
15	31.9	Col-Ba	Y value is 0.696. This lies within the tabled values of 1.1073 and -2.7048					
16	35.1661	Col-Ba						
17	36.842	Col-Ba						
18	36.8545	Col-Ba						
19	39.2	Col-Ba	Upper Confidence Limit (UCL)					
20	39.3	Col-Ba						
21	40.3	Col-Ba						
22	40.9	Col-Ba						
23	41.1392	Col-Ba						
24	43.7021	Col-Ba						
25	43.8	Col-Ba						
26	47.5	Col-Ba						
27	49.6	Col-Ba						
28	54.5	Col-Ba						
29	55.6561	Col-Ba						
30	56	Col-Ba						
31	58.6	Col-Ba						
32	60.5	Col-Ba						
33	65.765	Col-Ba						
34	65.8665	Col-Ba						
35	68.8	Col-Ba						
36	68.8242	Col-Ba						
37	74.528	Col-Ba						
38	77.4	Col-Ba						
39	78.4	Col-Ba						
40	81.1	Col-Ba						
41	81.1927	Col-Ba						
42	82.2	Col-Ba						
43	82.3	Col-Ba						
44	83.1839	Col-Ba						
45	86.6	Col-Ba						
46	91.8632	Col-Ba						
47	95.8145	Col-Ba						
48	95.843	Col-Ba						
49	100	Col-Ba						
50	101	Col-Ba						
51	114.42	Col-Ba						
52	118.8341	Col-Ba						
53	121.1429	Col-Ba						
54	128	Col-Ba						
55	129	Col-Ba						
56	139	Col-Ba						
57	143	Col-Ba						
58	144	Col-Ba						
59	157.976	Col-Ba						
60	233	Col-Ba						
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Barium
Data file: col-all.dat

S t a t i s t i c s

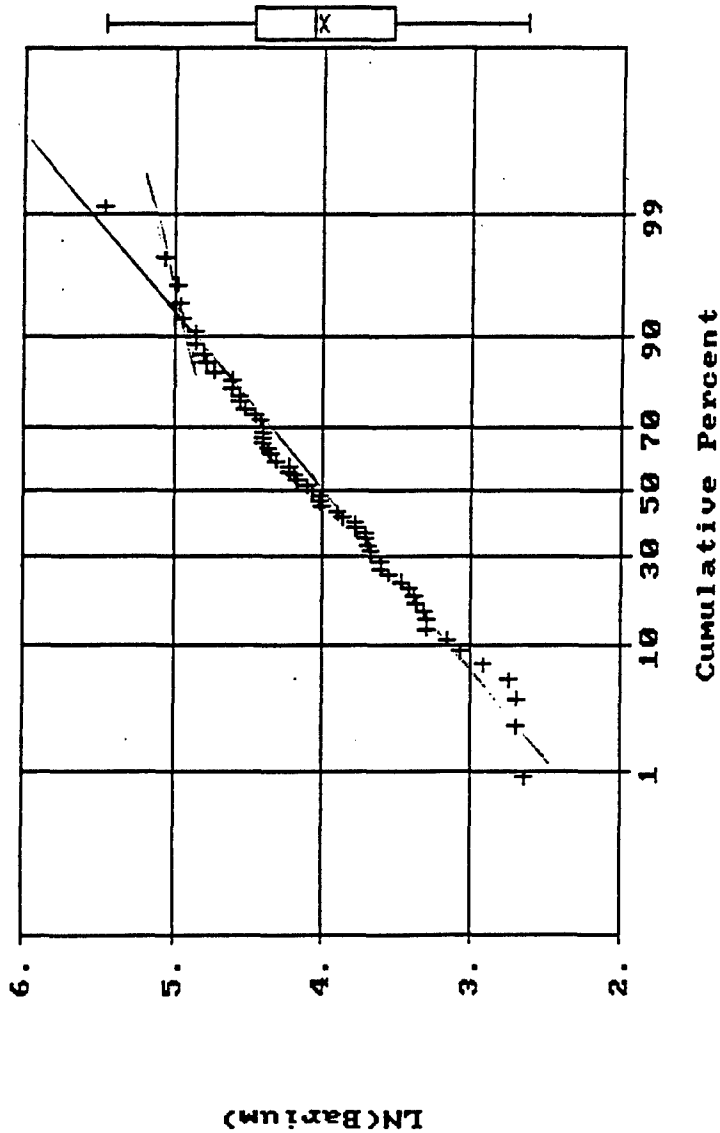
N Total :	62
N Miss :	3
N Used :	59
Mean :	68.016
Variance:	1907.141
Std. Dev:	43.671
% C.V. :	64.207
Skewness:	1.214
Kurtosis:	4.907
Minimum :	13.900
25th % :	34.350
Median :	58.600
75th % :	87.916
Maximum :	233.000



Normal Probability Plot for LN(Barium)
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	4.014
Variance :	.450
Std. Dev :	.671
% C.V. :	16.714
Skewness :	-.234
Kurtosis :	2.368
Minimum :	2.632
25th % :	3.536
Median :	4.071
75th % :	4.476
Maximum :	5.451



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Be	Number of samples		Uncensored values		Sort data	
3	0.05	Col-Be	Uncensored	59	Mean	0.413	Create report	
4	0.05	Col-Be	Censored		Lognormal mean	0.436	Clear all	
5	0.05	Col-Be	Detection limit or PQL		Std. devn.	0.379	Histogram	
6	0.05	Col-Be	Method detection limit		Median	0.25	5	10
7	0.05	Col-Be	TOTAL	59	Min.	0.05	20	
8	0.05	Col-Be	ENTER DATA		Max	1.7		
9	0.05	Col-Be	Distribution Decision					
10	0.05	Col-Be	Probability plot method		W test	D'Agostino's test		
11	0.123	Col-Be	Lognormal distribution?		Normal distribution?			
12	0.123	Col-Be	r-squared is: 0.935		r-squared is: 0.809			
13	0.124	Col-Be	Recommendations					
14	0.1776	Col-Be	Use lognormal distribution.					
15	0.2029	Col-Be						
16	0.2073	Col-Be						
17	0.2135	Col-Be						
18	0.2135	Col-Be						
19	0.2135	Col-Be						
20	0.2135	Col-Be						
21	0.2135	Col-Be						
22	0.222	Col-Be	Upper Confidence Limit (UCL)					
23	0.2276	Col-Be						
24	0.24	Col-Be						
25	0.2481	Col-Be						
26	0.25	Col-Be						
27	0.25	Col-Be						
28	0.25	Col-Be						
29	0.25	Col-Be						
30	0.25	Col-Be						
31	0.25	Col-Be						
32	0.25	Col-Be						
33	0.25	Col-Be						
34	0.25	Col-Be						
35	0.25	Col-Be						
36	0.2512	Col-Be						
37	0.2563	Col-Be						
38	0.3006	Col-Be						
39	0.348	Col-Be						
40	0.4058	Col-Be						
41	0.4127	Col-Be						
42	0.4292	Col-Be						
43	0.4604	Col-Be						
44	0.4815	Col-Be						
45	0.504	Col-Be						
46	0.5849	Col-Be						
47	0.613	Col-Be						
48	0.67	Col-Be						
49	0.6811	Col-Be						
50	0.749	Col-Be						
51	0.788	Col-Be						
52	0.831	Col-Be						
53	1	Col-Be						
54	1.01	Col-Be						
55	1.1	Col-Be						
56	1.14	Col-Be						
57	1.22	Col-Be						
58	1.22	Col-Be						
59	1.29	Col-Be						
60	1.7	Col-Be						
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67								

Calculate UCL

Lognormal

Normal

Neither

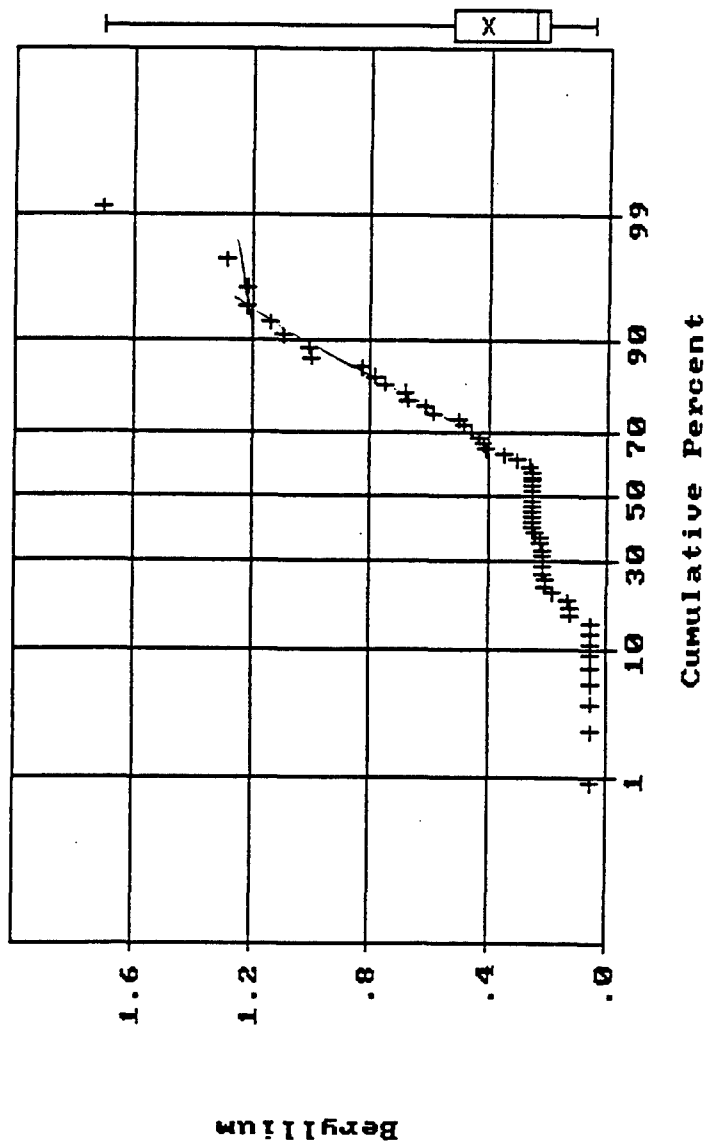
Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Be	Number of samples		Uncensored values		Sort data	
3	0.05	Col-Be	Uncensored	59	Mean	0.413	Create report	
4	0.05	Col-Be	Censored		Lognormal mean	0.436	Clear all	
5	0.05	Col-Be	Detection limit or PQL	-----	Std. devn.	0.379	Histogram	
6	0.05	Col-Be	Method detection limit		Median	0.25	5 10 20	
7	0.05	Col-Be	TOTAL	59	Min.	0.05		
8	0.05	Col-Be	ENTER DATA		Max	1.7		
9	0.05	Col-Be	Distribution Decision					
10	0.05	Col-Be	Probability plot method		W test	D'Agostino's test		
11	0.123	Col-Be	Lognormal distribution?		Normal distribution?			
12	0.123	Col-Be	r-squared is: 0.935		r-squared is: 0.809			
13	0.124	Col-Be	Recommendations					
14	0.1776	Col-Be	Assume lognormal distribution.					
15	0.2029	Col-Be	Y value is -1.2909. This lies within the tabled values of -1.1073 and -2.7048					
16	0.2073	Col-Be						
17	0.2135	Col-Be						
18	0.2135	Col-Be						
19	0.2135	Col-Be						
20	0.2135	Col-Be						
21	0.2135	Col-Be						
22	0.222	Col-Be	Upper Confidence Limit (UCL)					
23	0.2276	Col-Be						
24	0.24	Col-Be						
25	0.2481	Col-Be						
26	0.25	Col-Be						
27	0.25	Col-Be						
28	0.25	Col-Be						
29	0.25	Col-Be						
30	0.25	Col-Be						
31	0.25	Col-Be						
32	0.25	Col-Be						
33	0.25	Col-Be						
34	0.25	Col-Be						
35	0.25	Col-Be						
36	0.2512	Col-Be						
37	0.2563	Col-Be						
38	0.3006	Col-Be						
39	0.348	Col-Be						
40	0.4058	Col-Be						
41	0.4127	Col-Be						
42	0.4292	Col-Be						
43	0.4604	Col-Be						
44	0.4815	Col-Be						
45	0.504	Col-Be						
46	0.5849	Col-Be						
47	0.613	Col-Be						
48	0.67	Col-Be						
49	0.6811	Col-Be						
50	0.749	Col-Be						
51	0.788	Col-Be						
52	0.831	Col-Be						
53	1	Col-Be						
54	1.01	Col-Be						
55	1.1	Col-Be						
56	1.14	Col-Be						
57	1.22	Col-Be						
58	1.22	Col-Be						
59	1.29	Col-Be						
60	1.7	Col-Be						
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65								
66								
67								

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

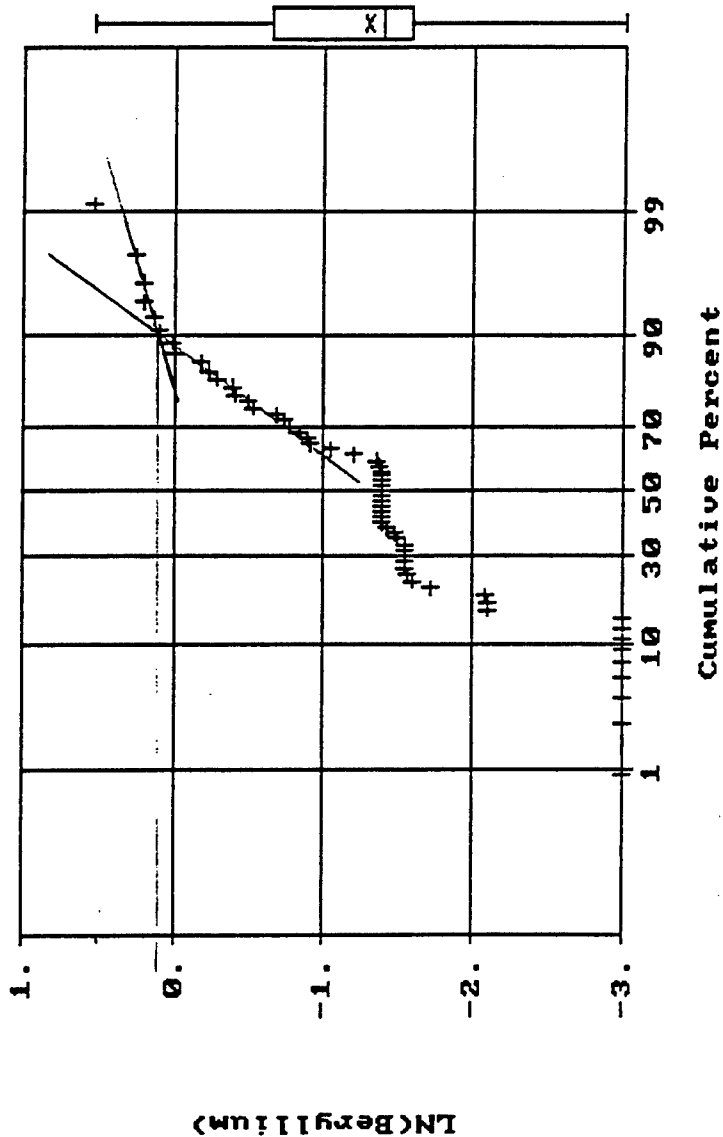
Normal Probability Plot for Beryllium
Data file: col-all.dat



S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	.413
Variance:	.143
Std. Dev:	.379
% C.V. :	91.736
Skewness:	1.456
Kurtosis:	4.443
Minimum :	.050
25th % :	.206
Median :	.250
75th % :	.524
Maximum :	1.700

Normal Probability Plot for LN(Beryllium)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	-1.296
Variance :	.933
Std. Dev :	.966
% C.V. :	74.542
Skewness :	-.244
Kurtosis :	2.483
Minimum :	-2.996
25th % :	-1.579
Median :	-1.386
75th % :	-.648
Maximum :	.531

$e^{0.1} = 1.1$

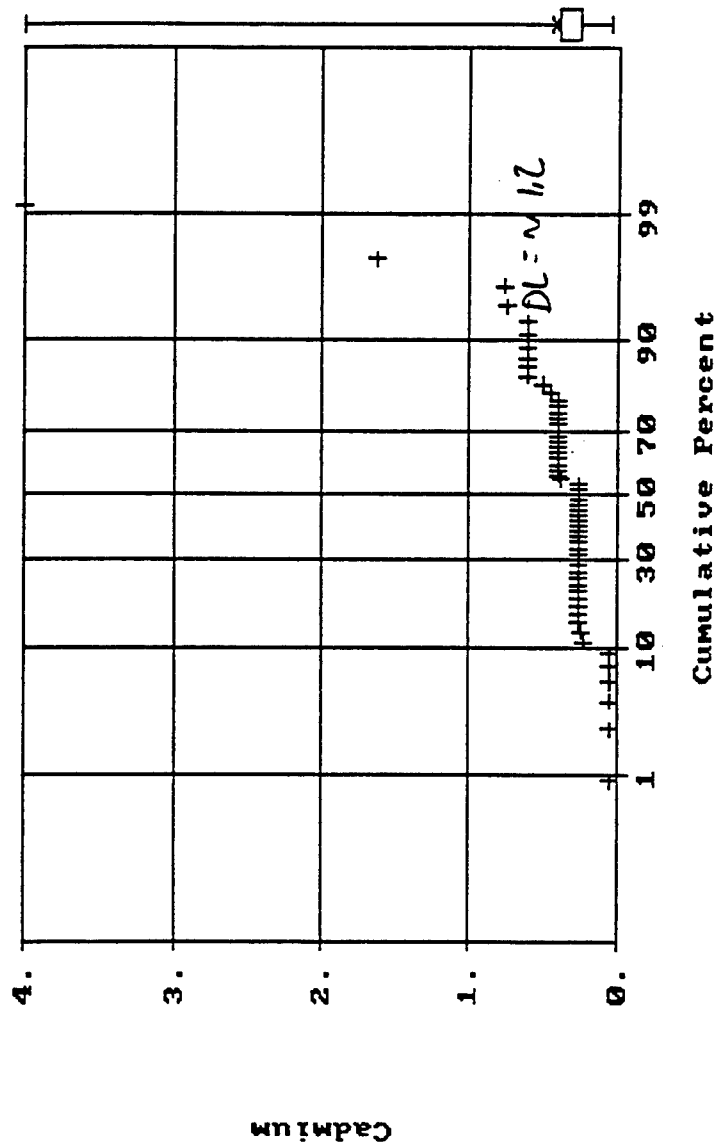
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Cd	Number of samples		Uncensored values		Sort data	
3	0.05	Col-Cd	Uncensored	59	Mean	0.416	Create report	
4	0.05	Col-Cd	Censored		Lognormal mean	0.410	Clear all	
5	0.05	Col-Cd	Detection limit or PQL		Std. devn.	0.529	Histogram	
6	0.05	Col-Cd	Method detection limit		Median	0.2575	5 10 20	
7	0.05	Col-Cd	TOTAL	59	Min.	0.05		
8	0.22	Col-Cd	ENTER DATA		Max	4		
9	0.235	Col-Cd	Distribution Decision					
10	0.25	Col-Cd	Probability plot method		W test	D'Agostino's test		
11	0.25	Col-Cd	Lognormal distribution?		Normal distribution?			
12	0.25	Col-Cd	r-squared is: 0.818		r-squared is: 0.389			
13	0.25	Col-Cd	Recommendations				Clear messages	
14	0.25	Col-Cd	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.2575	Col-Cd					Calculate UCL	
16	0.2575	Col-Cd					Lognormal	
17	0.2575	Col-Cd					Normal	
18	0.2575	Col-Cd					Neither	
19	0.2575	Col-Cd					Sample size	
20	0.2575	Col-Cd						
21	0.2575	Col-Cd						
22	0.2575	Col-Cd						
23	0.2575	Col-Cd						
24	0.2575	Col-Cd						
25	0.2575	Col-Cd						
26	0.2575	Col-Cd						
27	0.2575	Col-Cd						
28	0.2575	Col-Cd						
29	0.2575	Col-Cd						
30	0.2575	Col-Cd						
31	0.2575	Col-Cd						
32	0.2575	Col-Cd						
33	0.2575	Col-Cd						
34	0.371	Col-Cd						
35	0.4	Col-Cd						
36	0.4	Col-Cd						
37	0.4	Col-Cd						
38	0.4	Col-Cd						
39	0.4	Col-Cd						
40	0.4	Col-Cd						
41	0.4	Col-Cd						
42	0.4	Col-Cd						
43	0.4	Col-Cd						
44	0.4	Col-Cd						
45	0.4	Col-Cd						
46	0.4	Col-Cd						
47	0.4	Col-Cd						
48	0.4	Col-Cd						
49	0.444	Col-Cd						
50	0.493	Col-Cd						
51	0.6	Col-Cd						
52	0.6	Col-Cd						
53	0.6	Col-Cd						
54	0.6	Col-Cd						
55	0.6	Col-Cd						
56	0.6	Col-Cd						
57	0.74	Col-Cd						
58	0.757	Col-Cd						
59	1.62	Col-Cd						
60	4	Col-Cd						
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63								
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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Cd	Number of samples		Uncensored values		Sort data	
3	0.05	Col-Cd	Uncensored	59	Mean	0.416	Create report	
4	0.05	Col-Cd	Censored		Lognormal mean	0.410	Clear all	
5	0.05	Col-Cd	Detection limit or PQL	-----	Std. devn.	0.529	Histogram	
6	0.05	Col-Cd	Method detection limit	-----	Median	0.2575	5 10 20	
7	0.05	Col-Cd	TOTAL	59	Min.	0.05		
8	0.22	Col-Cd	ENTER DATA		Max.	4		
9	0.235	Col-Cd	Distribution Decision					
10	0.25	Col-Cd	Probability plot method		W test	D'Agostino's test		
11	0.25	Col-Cd	Lognormal distribution?		Normal distribution?			
12	0.25	Col-Cd	r-squared is: 0.818		r-squared is: 0.389			
13	0.25	Col-Cd	Recommendations:					
14	0.25	Col-Cd	Reject lognormal distribution.					
15	0.2575	Col-Cd	Y value is -9.9585. This lies outside the tabled values of 1.1073 and -2.7048					
16	0.2575	Col-Cd	Reject normal distribution.					
17	0.2575	Col-Cd	Y value is -32.5255. This lies outside the tabled values of 1.1073 and -2.7048					
18	0.2575	Col-Cd	Upper Confidence Limit (UCL)					
19	0.2575	Col-Cd						
20	0.2575	Col-Cd						
21	0.2575	Col-Cd						
22	0.2575	Col-Cd						
23	0.2575	Col-Cd						
24	0.2575	Col-Cd						
25	0.2575	Col-Cd						
26	0.2575	Col-Cd						
27	0.2575	Col-Cd						
28	0.2575	Col-Cd						
29	0.2575	Col-Cd						
30	0.2575	Col-Cd						
31	0.2575	Col-Cd						
32	0.2575	Col-Cd						
33	0.2575	Col-Cd						
34	0.371	Col-Cd						
35	0.4	Col-Cd						
36	0.4	Col-Cd						
37	0.4	Col-Cd						
38	0.4	Col-Cd						
39	0.4	Col-Cd						
40	0.4	Col-Cd						
41	0.4	Col-Cd						
42	0.4	Col-Cd						
43	0.4	Col-Cd						
44	0.4	Col-Cd						
45	0.4	Col-Cd						
46	0.4	Col-Cd						
47	0.4	Col-Cd						
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49	0.444	Col-Cd						
50	0.493	Col-Cd						
51	0.6	Col-Cd						
52	0.6	Col-Cd						
53	0.6	Col-Cd						
54	0.6	Col-Cd						
55	0.6	Col-Cd						
56	0.6	Col-Cd						
57	0.74	Col-Cd						
58	0.757	Col-Cd						
59	1.62	Col-Cd						
60	4	Col-Cd						
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Normal Probability Plot for Cadmium
Data file: col-all.dat



S t a t i s t i c s

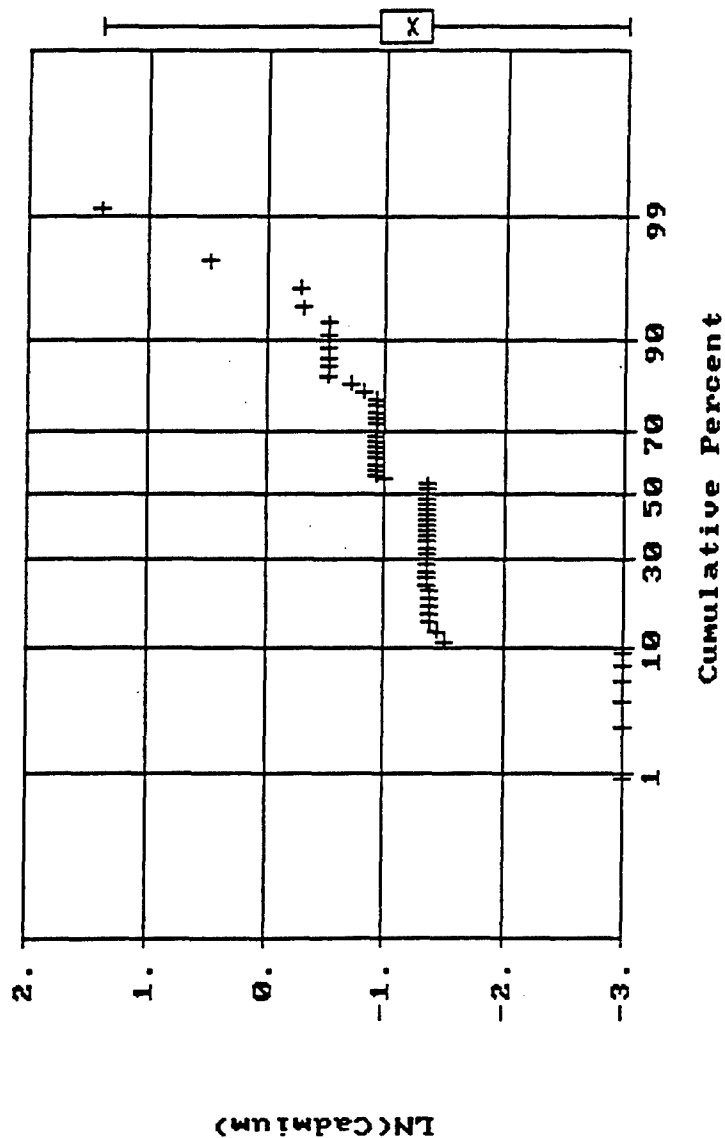
N Total :	62
N Miss :	3
N Used :	59
Mean :	.416
Variance:	.280
Std. Dev:	.529
% C.U. :	127.238
Skewness:	5.585
Kurtosis:	37.517
Minimum :	.050
25th % :	.257
Median :	.257
75th % :	.400
Maximum :	4.000

ALL DEFECTS

Normal Probability Plot for LN(Cadmium)
Data file: col-all.dat

Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	-1.199
Variance:	.616
Std. Dev:	.785
% C.V. :	65.451
Skewness:	-.321
Kurtosis:	5.455
Minimum :	-2.996
25th % :	-1.357
Median :	-1.357
75th % :	-.916
Maximum :	1.386



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Col-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Col-CN	Uncensored	33	Mean	0.376	Create report	
4	0.125	Col-CN	Censored		Lognormal mean	0.392	Clear all	
5	0.125	Col-CN	Detection limit or PQL	-----	Std. devn.	0.171	Histogram	
6	0.125	Col-CN	Method detection limit	-----	Median	0.5	5	10
7	0.125	Col-CN	TOTAL	33	Min.	0.125	20	
8	0.125	Col-CN	ENTER DATA		Max	0.5161		
9	0.125	Col-CN	Distribution Decision					
10	0.125	Col-CN	Probability plot method		W test	D'Agostino's test		
11	0.125	Col-CN	Lognormal distribution?		Normal distribution?			
12	0.3208	Col-CN	r-squared is: 0.645		r-squared is: 0.671			
13	0.4299	Col-CN	Recommendations:					
14	0.46	Col-CN	Reject lognormal distribution.					
15	0.46	Col-CN	W value is 0.5235. This is less than the tabled value of 0.931					
16	0.4751	Col-CN	Reject normal distribution.					
17	0.485	Col-CN	W value is 0.6489. This is less than the tabled value of 0.931					
18	0.5	Col-CN	Upper Confidence Limit (UCL)					
19	0.5	Col-CN						
20	0.5	Col-CN						
21	0.5	Col-CN						
22	0.5	Col-CN						
23	0.5	Col-CN						
24	0.5	Col-CN						
25	0.5	Col-CN						
26	0.5	Col-CN						
27	0.5	Col-CN						
28	0.5	Col-CN						
29	0.5	Col-CN						
30	0.5	Col-CN						
31	0.5	Col-CN						
32	0.5	Col-CN						
33	0.5	Col-CN						
34	0.5161	Col-CN						
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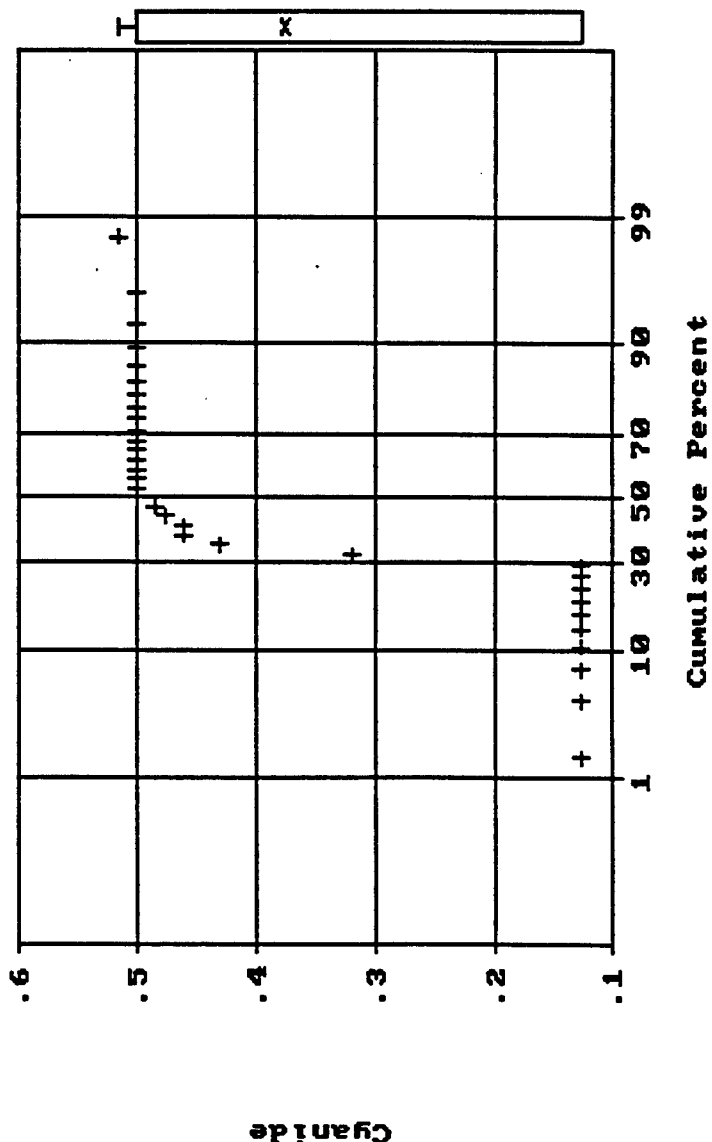
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Col-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Col-CN	Uncensored	33	Mean	0.376	Create report	
4	0.125	Col-CN	Censored		Lognormal mean	0.392	Clear all	
5	0.125	Col-CN	Detection limit or PQL	-----	Std. devn.	0.171	Histogram	
6	0.125	Col-CN	Method detection limit	-----	Median	0.5	5 10 20	
7	0.125	Col-CN	TOTAL	33	Min.	0.125		
8	0.125	Col-CN	ENTER DATA		Max.	0.5161		
9	0.125	Col-CN	Distribution Decision					
10	0.125	Col-CN	Probability plot method		W test	D'Agostino's test		
11	0.125	Col-CN	Lognormal distribution?		Normal distribution?			
12	0.3208	Col-CN	r-squared is: 0.645		r-squared is: 0.671			
13	0.4299	Col-CN	Recommendations:					
14	0.46	Col-CN	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.46	Col-CN						
16	0.4751	Col-CN						
17	0.485	Col-CN						
18	0.5	Col-CN						
19	0.5	Col-CN						
20	0.5	Col-CN						
21	0.5	Col-CN	Upper Confidence Limit (UCL)					
22	0.5	Col-CN						
23	0.5	Col-CN						
24	0.5	Col-CN						
25	0.5	Col-CN						
26	0.5	Col-CN						
27	0.5	Col-CN						
28	0.5	Col-CN						
29	0.5	Col-CN						
30	0.5	Col-CN						
31	0.5	Col-CN						
32	0.5	Col-CN						
33	0.5	Col-CN						
34	0.5161	Col-CN						
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Normal Probability Plot for Cyanide
Data file: col-all.dat

S t a t i s t i c s

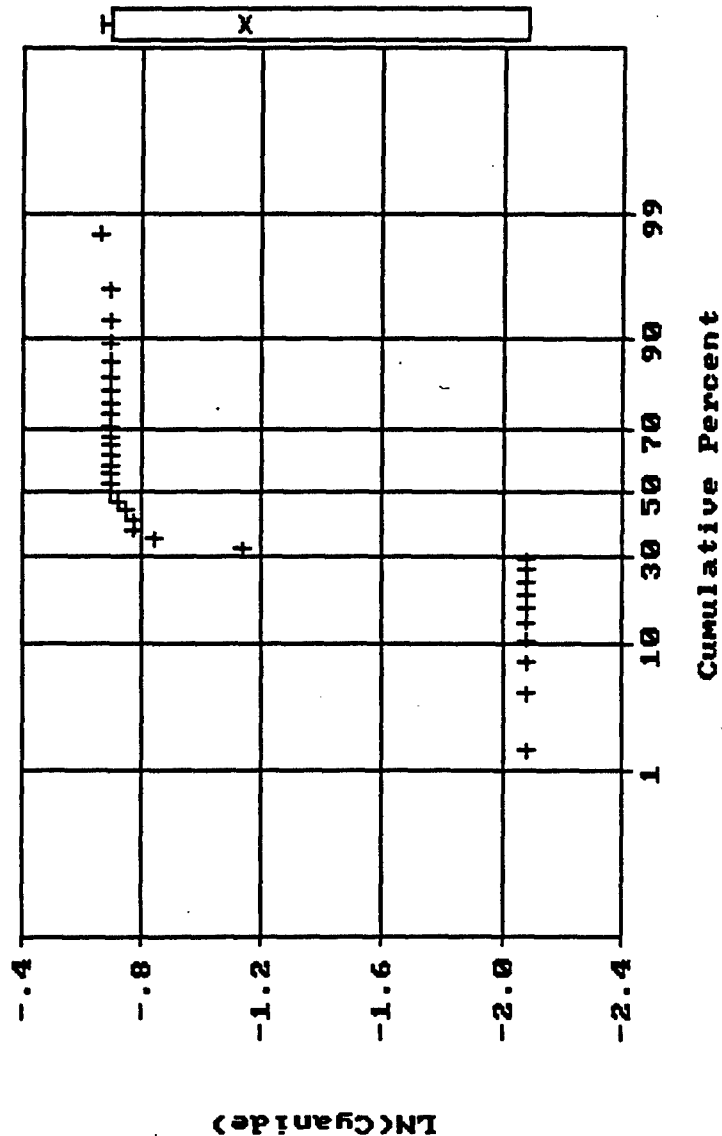
N Total :	62
N Miss :	29
N Used :	33
Mean :	.376
Variance:	.029
Std. Dev:	.171
% C.V. :	45.561
Skewness:	-.763
Kurtosis:	1.654
Minimum :	.125
25th % :	.125
Median :	.500
75th % :	.500
Maximum :	.516



Normal Probability Plot for LN(Cyanide)
Data file: col-all.dat

Statistics

N Total :	62
N Miss :	29
N Used :	33
Mean :	-1.138
Variance :	.404
Std. Dev :	.636
% C.V. :	55.868
Skewness :	-.813
Kurtosis :	1.704
Minimum :	-2.079
25th % :	-2.079
Median :	-.693
75th % :	-.693
Maximum :	-.661



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.4541	Col-Co	Number of samples		Uncensored values		Sort data	
3	5.83	Col-Co	Uncensored	59	Mean	19.195	Create report	
4	6.36	Col-Co	Censored		Lognormal mean	18.897	Clear all	
5	6.48	Col-Co	Detection limit or PQL		Std. devn.	17.958	Histogram	
6	6.73	Col-Co	Method detection limit		Median	12.8925	5	10
7	6.781	Col-Co	TOTAL	59	Min.	2.4541	20	
8	6.83	Col-Co	ENTER DATA		Max	120	Clear messages	
9	7.73	Col-Co	Distribution Decision					
10	7.85	Col-Co	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	8.14	Col-Co	Lognormal distribution?		Normal distribution?		Lognormal	
12	8.2127	Col-Co	r-squared is: 0.946		r-squared is: 0.636		Normal	
13	8.8	Col-Co	Recommendations					
14	8.83	Col-Co	Use lognormal distribution.					
15	8.94	Col-Co						
16	9.2152	Col-Co						
17	9.64	Col-Co						
18	9.77	Col-Co						
19	9.85	Col-Co						
20	10.2	Col-Co						
21	10.8857	Col-Co	Upper Confidence Limit (UCL)					
22	11.2264	Col-Co						
23	11.2793	Col-Co						
24	12	Col-Co						
25	12.0275	Col-Co						
26	12.1	Col-Co						
27	12.2363	Col-Co						
28	12.3	Col-Co						
29	12.3012	Col-Co						
30	12.8371	Col-Co						
31	12.8925	Col-Co						
32	12.9244	Col-Co						
33	13.0286	Col-Co						
34	13.687	Col-Co						
35	13.807	Col-Co						
36	14	Col-Co						
37	14.2032	Col-Co						
38	14.5	Col-Co						
39	14.7059	Col-Co						
40	15.5	Col-Co						
41	15.62	Col-Co						
42	15.936	Col-Co						
43	17	Col-Co						
44	20.8	Col-Co						
45	23.5	Col-Co						
46	25.9	Col-Co						
47	26.282	Col-Co						
48	27.1	Col-Co						
49	31.4	Col-Co						
50	33.8	Col-Co						
51	34.3	Col-Co						
52	34.4	Col-Co						
53	36.5	Col-Co						
54	37.9	Col-Co						
55	39.1	Col-Co						
56	40	Col-Co						
57	41.2	Col-Co						
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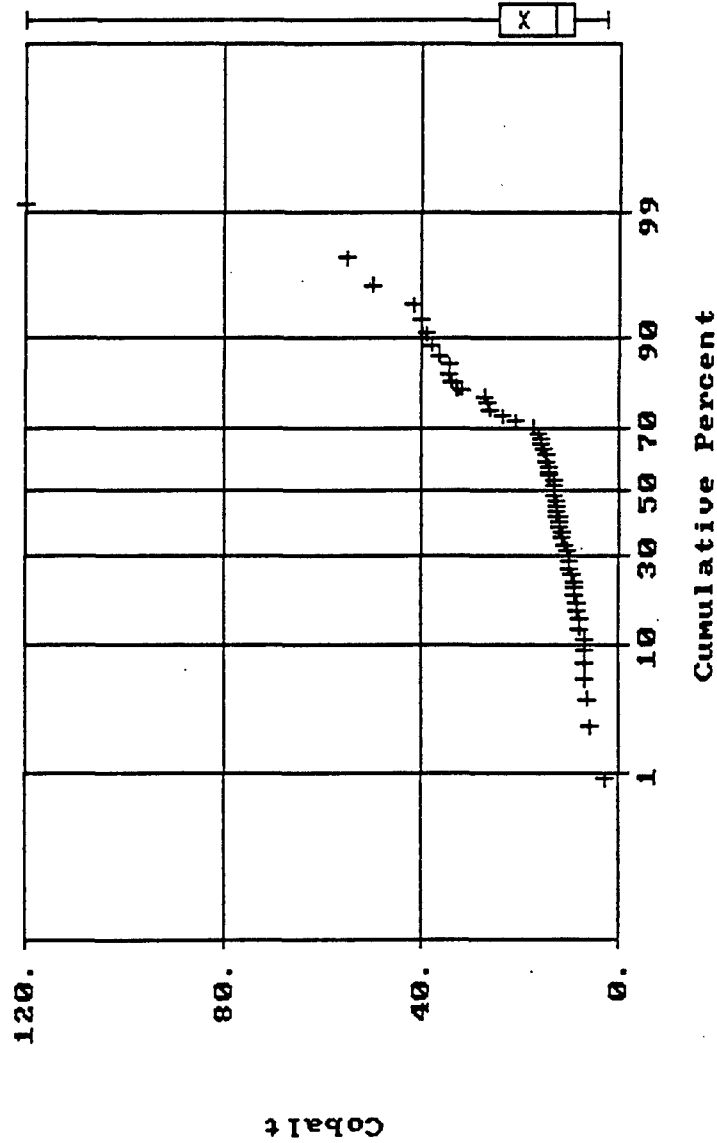
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.4541	Col-Co	Number of samples		Uncensored values		Sort data	
3	5.83	Col-Co	Uncensored	59	Mean	19.195	Create report	
4	6.36	Col-Co	Censored		Lognormal mean	18.697	Clear all	
5	6.48	Col-Co	Detection limit or PQL	-----	Std. devn.	17.958	Histogram	
6	6.73	Col-Co	Method detection limit	-----	Median	12.8925	5 10 20	
7	6.781	Col-Co	TOTAL	59	Min.	2.4541	Clear messages	
8	6.83	Col-Co	ENTER DATA		Max	120	Calculate UCL	
9	7.73	Col-Co	Distribution Decision				Lognormal	
10	7.85	Col-Co	Probability plot method		W test	D'Agostino's test	Normal	
11	8.14	Col-Co	Lognormal distribution?		Normal distribution?		Neither	
12	8.2127	Col-Co	r-squared is: 0.946		r-squared is: 0.636		Sample size	
13	8.8	Col-Co	Recommendations					
14	8.83	Col-Co	Assume lognormal distribution.					
15	8.94	Col-Co	Y value is -2.3462. This lies within the tabulated values of -1.1073 and -2.7048					
16	9.2152	Col-Co						
17	9.64	Col-Co						
18	9.77	Col-Co						
19	9.85	Col-Co						
20	10.2	Col-Co						
21	10.8857	Col-Co	Upper Confidence Limit (UCL)					
22	11.2264	Col-Co						
23	11.2793	Col-Co						
24	12	Col-Co						
25	12.0275	Col-Co						
26	12.1	Col-Co						
27	12.2363	Col-Co						
28	12.3	Col-Co						
29	12.3012	Col-Co						
30	12.8371	Col-Co						
31	12.8925	Col-Co						
32	12.9244	Col-Co						
33	13.0286	Col-Co						
34	13.687	Col-Co						
35	13.807	Col-Co						
36	14	Col-Co						
37	14.2032	Col-Co						
38	14.5	Col-Co						
39	14.7059	Col-Co						
40	15.5	Col-Co						
41	15.62	Col-Co						
42	15.936	Col-Co						
43	17	Col-Co						
44	20.8	Col-Co						
45	23.5	Col-Co						
46	25.9	Col-Co						
47	26.282	Col-Co						
48	27.1	Col-Co						
49	31.4	Col-Co						
50	33.8	Col-Co						
51	34.3	Col-Co						
52	34.4	Col-Co						
53	36.5	Col-Co						
54	37.9	Col-Co						
55	39.1	Col-Co						
56	40	Col-Co						
57	41.2	Col-Co						
58	49.5	Col-Co						
59	55.2	Col-Co						
60	120	Col-Co						
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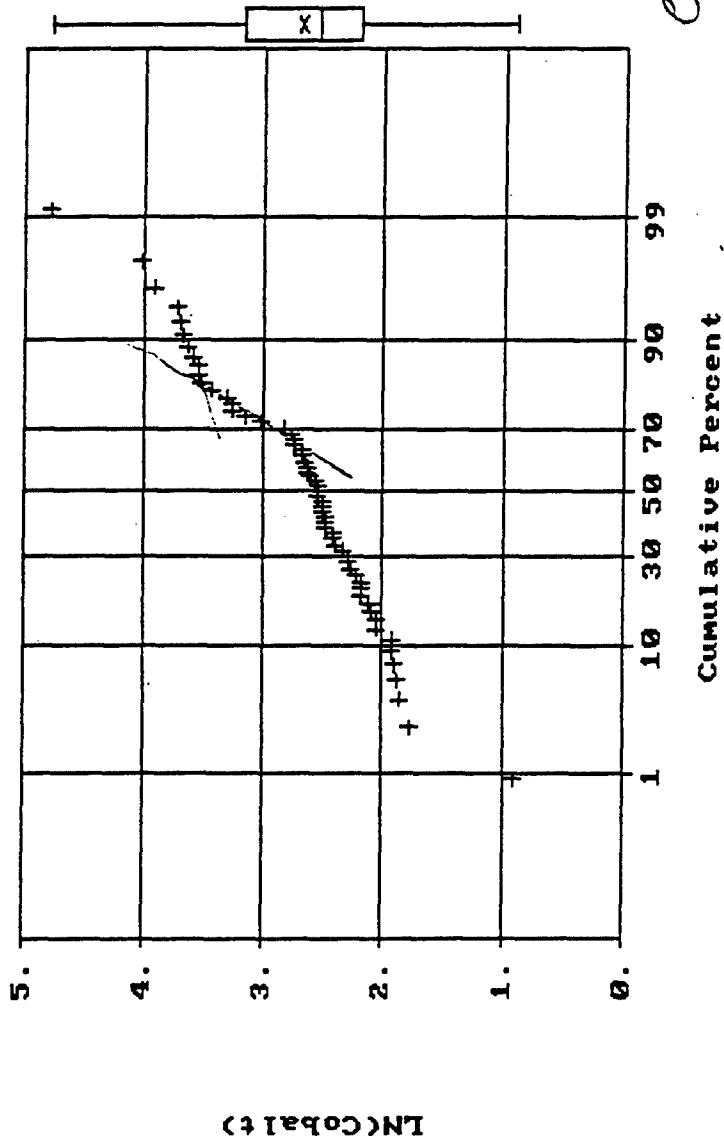
Normal Probability Plot for Cobalt
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	19.195
Variance:	322.477
Std. Dev:	17.958
% C.V. :	93.552
Skewness:	3.350
Kurtosis:	18.074
Minimum :	2.454
25th % :	9.146
Median :	12.892
75th % :	24.100
Maximum :	120.000



Normal Probability Plot for LN(Cobalt)
Data file: col-all.dat



S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	2.692
Variance :	.472
Std. Dev. :	.687
% C.V. :	25.517
Skewness :	.525
Kurtosis :	3.563
Minimum :	.898
25th % :	2.213
Median :	2.557
75th % :	3.181
Maximum :	4.787

3.5 - v33

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	24	Col-Cr	Number of samples		Uncensored values		Sort data	
3	26.4	Col-Cr	Uncensored	59	Mean	106.679	Create report	
4	28	Col-Cr	Censored		Lognormal mean	97.534	Clear all	
5	30.5	Col-Cr	Detection limit or PQL		Std. devn.	140.415	Histogram	
6	36.9	Col-Cr	Method detection limit		Median	67.7625	5	10
7	40.1549	Col-Cr	TOTAL	59	Min.	24	20	
8	41.4	Col-Cr	ENTER DATA		Max.	942.8251		
9	41.8	Col-Cr	Distribution Decision					
10	41.8	Col-Cr	Probability plot method		W test	D'Agostino's test		
11	42.1	Col-Cr	Lognormal distribution?		Normal distribution?			
12	43.7	Col-Cr	r-squared is: 0.895		r-squared is: 0.443			
13	49.1745	Col-Cr	Recommendations					
14	49.7	Col-Cr	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	50.2	Col-Cr						
16	50.8	Col-Cr						
17	51.5	Col-Cr						
18	51.7606	Col-Cr						
19	52.3	Col-Cr						
20	53.5797	Col-Cr						
21	53.8462	Col-Cr						
22	57	Col-Cr						
23	57.6	Col-Cr						
24	57.9611	Col-Cr						
25	58.2579	Col-Cr						
26	58.9	Col-Cr						
27	59.4	Col-Cr						
28	64.1256	Col-Cr						
29	64.6221	Col-Cr						
30	64.8	Col-Cr						
31	67.7625	Col-Cr						
32	78.2857	Col-Cr						
33	78.3755	Col-Cr						
34	79.9	Col-Cr						
35	81	Col-Cr						
36	82.7	Col-Cr						
37	84.5	Col-Cr						
38	89.1046	Col-Cr						
39	90.2	Col-Cr						
40	91.8	Col-Cr						
41	91.8	Col-Cr						
42	93.836	Col-Cr						
43	94.6	Col-Cr						
44	96.2	Col-Cr						
45	96.9	Col-Cr						
46	98.002	Col-Cr						
47	100	Col-Cr						
48	101	Col-Cr						
49	106	Col-Cr						
50	107	Col-Cr						
51	121.681	Col-Cr						
52	137.6147	Col-Cr						
53	141	Col-Cr						
54	142	Col-Cr						
55	156.75	Col-Cr						
56	255.949	Col-Cr						
57	295	Col-Cr						
58	300	Col-Cr						
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60	942.8251	Col-Cr						
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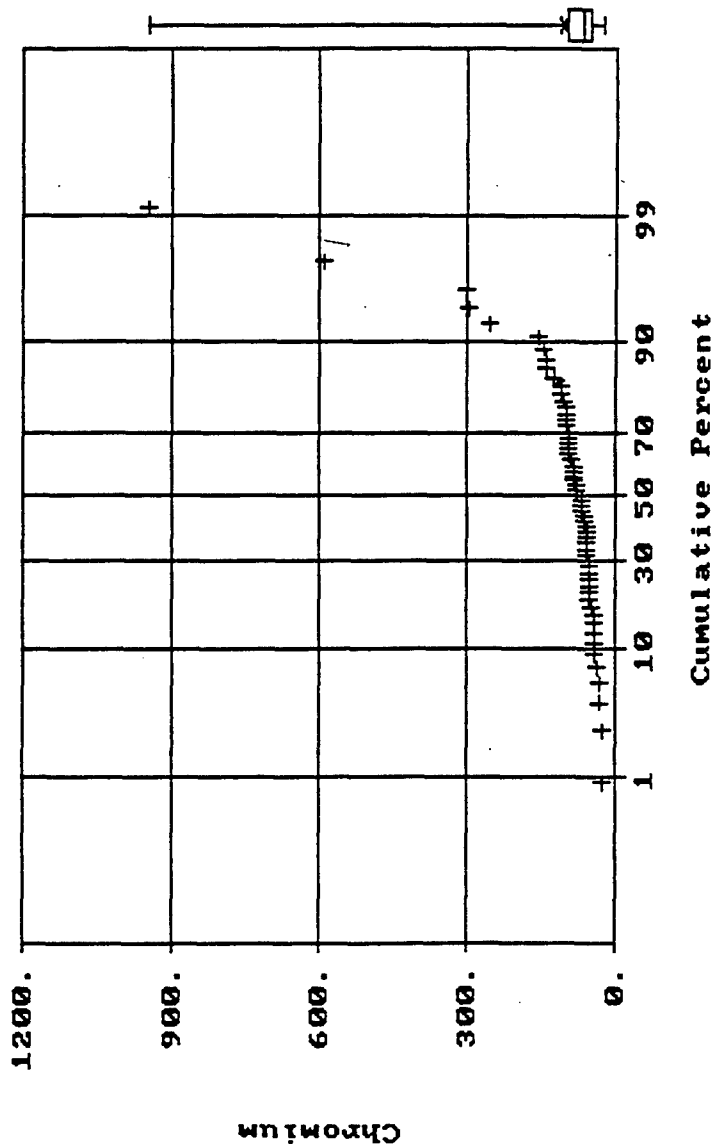
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	24	Col-Cr	Number of samples		Uncensored values		Sort data	
3	26.4	Col-Cr	Uncensored	59	Mean	106.679	Create report	
4	28	Col-Cr	Censored		Lognormal mean	97.534	Clear all	
5	30.5	Col-Cr	Detection limit or PQL		Std. devn.	140.415	Histogram	
6	36.9	Col-Cr	Method detection limit		Median	67.7625	5	10
7	40.1549	Col-Cr	TOTAL	59	Min.	24	20	
8	41.4	Col-Cr	ENTER DATA		Max	942.8251		
9	41.8	Col-Cr	Distribution Decision					
10	41.8	Col-Cr	Probability plot method		W test	D'Agostino's test		
11	42.1	Col-Cr	Lognormal distribution?		Normal distribution?			
12	43.7	Col-Cr	r-squared is: 0.895		r-squared is: 0.443			
13	49.1745	Col-Cr	Recommendations:					
14	49.7	Col-Cr	Reject lognormal distribution.					
15	50.2	Col-Cr	Y value is -5.6243. This lies outside the tabled values of 1.1073 and -2.7048					
16	50.8	Col-Cr	Reject normal distribution.					
17	51.5	Col-Cr	Y value is -29.2295. This lies outside the tabled values of 1.1073 and -2.7048					
18	51.7606	Col-Cr	Upper Confidence Limit (UCL)					
19	52.3	Col-Cr						
20	53.5797	Col-Cr						
21	53.8462	Col-Cr						
22	57	Col-Cr						
23	57.6	Col-Cr						
24	57.9611	Col-Cr						
25	58.2579	Col-Cr						
26	58.9	Col-Cr						
27	59.4	Col-Cr						
28	64.1256	Col-Cr						
29	64.6221	Col-Cr						
30	64.8	Col-Cr						
31	67.7625	Col-Cr						
32	78.2857	Col-Cr						
33	78.3755	Col-Cr						
34	79.9	Col-Cr						
35	81	Col-Cr						
36	82.7	Col-Cr						
37	84.5	Col-Cr						
38	89.1046	Col-Cr						
39	90.2	Col-Cr						
40	91.8	Col-Cr						
41	91.8	Col-Cr						
42	93.836	Col-Cr						
43	94.6	Col-Cr						
44	96.2	Col-Cr						
45	96.9	Col-Cr						
46	98.002	Col-Cr						
47	100	Col-Cr						
48	101	Col-Cr						
49	106	Col-Cr						
50	107	Col-Cr						
51	121.681	Col-Cr						
52	137.6147	Col-Cr						
53	141	Col-Cr						
54	142	Col-Cr						
55	156.75	Col-Cr						
56	255.949	Col-Cr						
57	295	Col-Cr						
58	300	Col-Cr						
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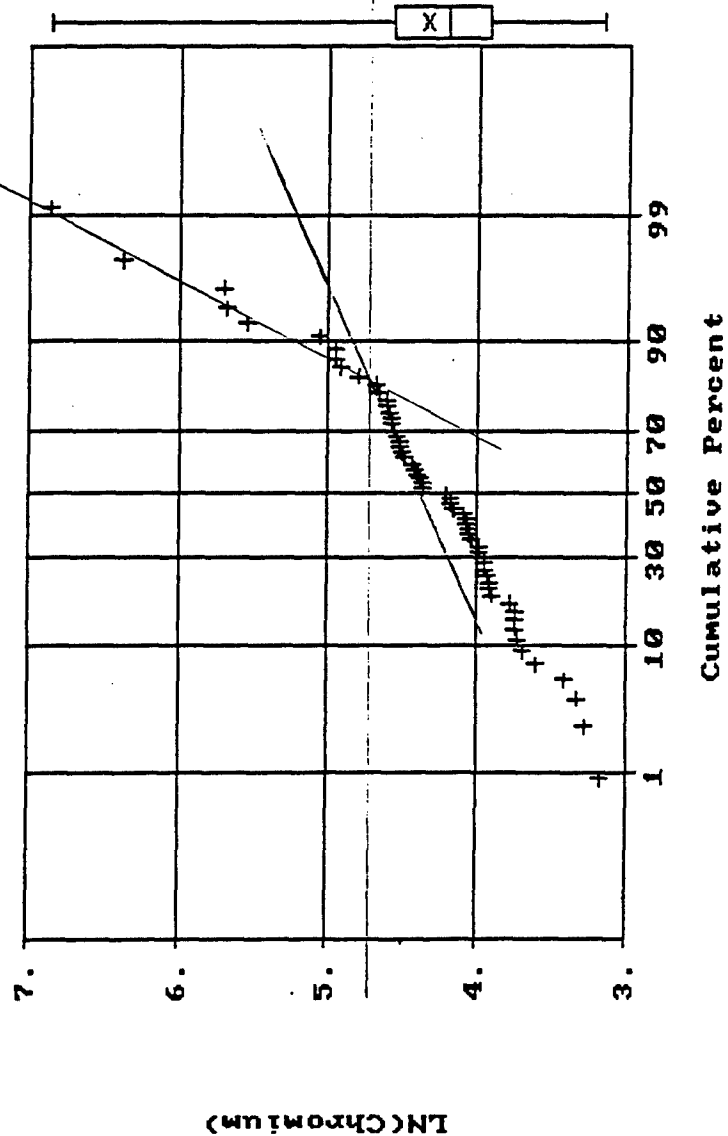
Normal Probability Plot for Chromium
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	106.679
Variance:	19716.500
Std. Dev:	140.415
% C.V. :	131.624
Skewness:	4.449
Kurtosis:	24.676
Minimum :	24.000
25th % :	50.650
Median :	67.762
75th % :	97.175
Maximum :	942.825



Normal Probability Plot for LN(Chromium)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	4.345
Variance :	.470
Std. Dev. :	.686
% C.V. :	15.777
Skewness :	1.340
Kurtosis :	5.740
Minimum :	3.178
25th % :	3.925
Median :	4.216
75th % :	4.577
Maximum :	6.849

$$e^{4.7} = 110$$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3.02	Col-Cu	Number of samples		Uncensored values		Sort data	
3	3.36	Col-Cu	Uncensored	59	Mean	20.936	Create report	
4	3.47	Col-Cu	Censored		Lognormal mean	19.775	Clear all	
5	3.74	Col-Cu	Detection limit or PQL		Std. devn.	28.854	Histogram	
6	3.9159	Col-Cu	Method detection limit		Median	15.2104	5 10 20	
7	4.03	Col-Cu	TOTAL	59	Min.	3.02	Clear messages	
8	4.32	Col-Cu	ENTER DATA		Max	165.0943	Calculate UCL	
9	4.52	Col-Cu	Distribution Decision				Lognormal	
10	4.62	Col-Cu	Probability plot method		W test	D'Agostino's test	Normal	
11	4.91	Col-Cu	Lognormal distribution?		Normal distribution?		Neither	
12	4.93	Col-Cu	r-squared is: 0.953		r-squared is: 0.497		Sample size	
13	5.2	Col-Cu	Recommendations					
14	5.67	Col-Cu	Use lognormal distribution.					
15	5.82	Col-Cu						
16	5.84	Col-Cu						
17	6.98	Col-Cu						
18	7.54	Col-Cu						
19	8.43	Col-Cu						
20	9.0263	Col-Cu						
21	9.54	Col-Cu						
22	9.74	Col-Cu						
23	10.4	Col-Cu						
24	10.4	Col-Cu						
25	10.4114	Col-Cu						
26	10.8824	Col-Cu						
27	11.833	Col-Cu						
28	13.0282	Col-Cu						
29	13.876	Col-Cu						
30	13.9	Col-Cu						
31	15.2104	Col-Cu						
32	16.3	Col-Cu						
33	16.6	Col-Cu						
34	17.3	Col-Cu						
35	17.5	Col-Cu						
36	17.7	Col-Cu						
37	18	Col-Cu						
38	18.1	Col-Cu						
39	18.3	Col-Cu						
40	19.4	Col-Cu						
41	19.5	Col-Cu						
42	19.9	Col-Cu						
43	20.2545	Col-Cu						
44	20.8145	Col-Cu						
45	20.9143	Col-Cu						
46	23.8	Col-Cu						
47	24	Col-Cu						
48	24.3649	Col-Cu						
49	24.4	Col-Cu						
50	26.6	Col-Cu						
51	27.529	Col-Cu						
52	27.7	Col-Cu						
53	31.7	Col-Cu						
54	31.8	Col-Cu						
55	32.3	Col-Cu						
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57	41.3677	Col-Cu						
58	80.8324	Col-Cu						
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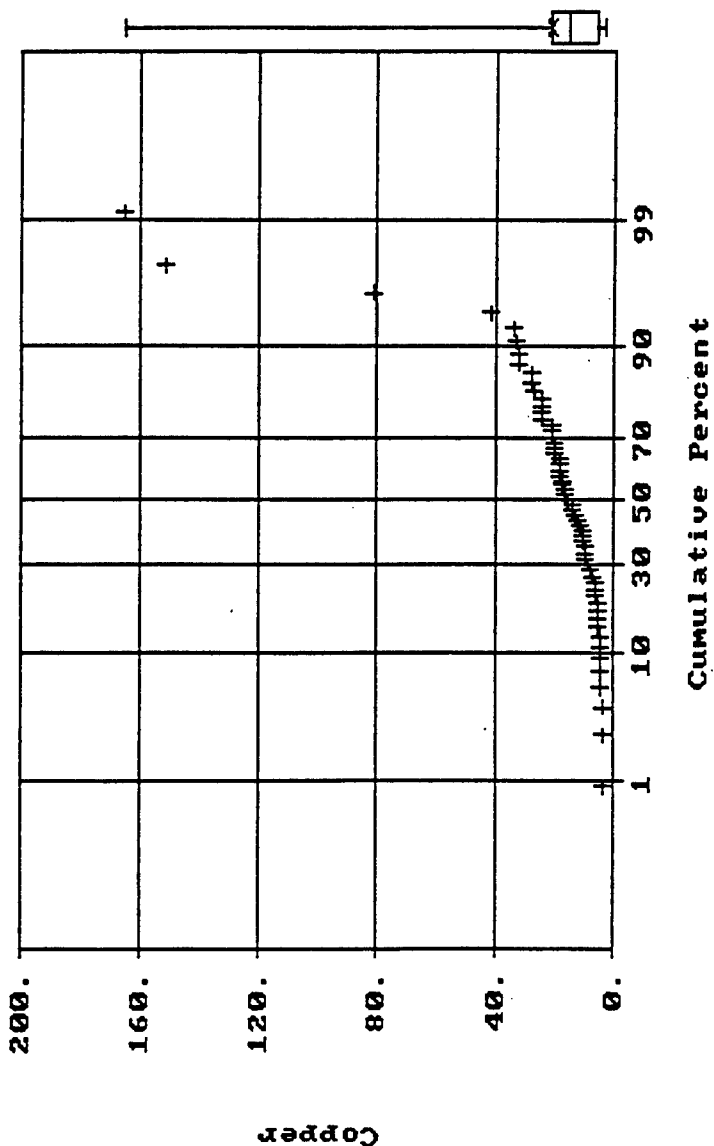
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	3.02	Col-Cu	Number of samples		Uncensored values		Sort data	
3	3.36	Col-Cu	Uncensored	59	Mean	20.936	Create report	
4	3.47	Col-Cu	Censored		Lognormal mean	19.775	Clear all	
5	3.74	Col-Cu	Detection limit or POL		Std. devn.	28.854	Histogram	
6	3.9159	Col-Cu	Method detection limit		Median	15.2104	5	10
7	4.03	Col-Cu	TOTAL	59	Min.	3.02	20	
8	4.32	Col-Cu	ENTER DATA		Max	165.0943	Clear messages	
9	4.52	Col-Cu	Distribution Decision					
10	4.62	Col-Cu	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	4.91	Col-Cu	Lognormal distribution?		Normal distribution?		Lognormal	
12	4.93	Col-Cu	r-squared is: 0.953		r-squared is: 0.497		Normal	
13	5.2	Col-Cu	Recommendations					
14	5.67	Col-Cu	Assume lognormal distribution.					
15	5.82	Col-Cu	Y value is -1.4233 This lies within the tabled values of -1.1073 and -2.7048					
16	5.84	Col-Cu	Upper Confidence Limit (UCL)					
17	6.98	Col-Cu						
18	7.54	Col-Cu						
19	8.43	Col-Cu						
20	9.0263	Col-Cu						
21	9.54	Col-Cu						
22	9.74	Col-Cu						
23	10.4	Col-Cu						
24	10.4	Col-Cu						
25	10.4114	Col-Cu						
26	10.8824	Col-Cu						
27	11.833	Col-Cu						
28	13.0282	Col-Cu						
29	13.876	Col-Cu						
30	13.9	Col-Cu						
31	15.2104	Col-Cu						
32	16.3	Col-Cu						
33	16.6	Col-Cu						
34	17.3	Col-Cu						
35	17.5	Col-Cu						
36	17.7	Col-Cu						
37	18	Col-Cu						
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39	18.3	Col-Cu						
40	19.4	Col-Cu						
41	19.5	Col-Cu						
42	19.9	Col-Cu						
43	20.2545	Col-Cu						
44	20.8145	Col-Cu						
45	20.9143	Col-Cu						
46	23.8	Col-Cu						
47	24	Col-Cu						
48	24.3649	Col-Cu						
49	24.4	Col-Cu						
50	26.6	Col-Cu						
51	27.529	Col-Cu						
52	27.7	Col-Cu						
53	31.7	Col-Cu						
54	31.8	Col-Cu						
55	32.3	Col-Cu						
56	33.1839	Col-Cu						
57	41.3677	Col-Cu						
58	80.8324	Col-Cu						
59	151.3761	Col-Cu						
60	165.0943	Col-Cu						
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Normal Probability Plot for Copper
Data file: col-all.dat

S t a t i s t i c s

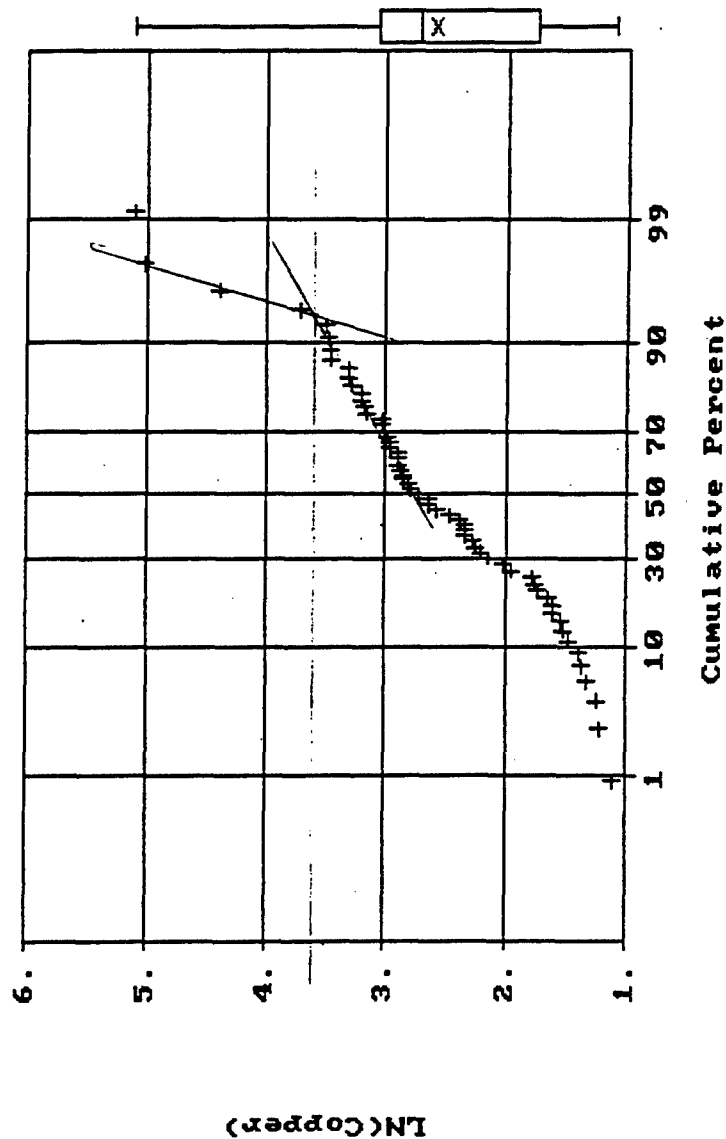
N Total :	62
N Miss :	3
N Used :	59
Mean :	20.936
Variance:	832.576
Std. Dev:	28.854
% C.V. :	137.825
Skewness:	3.879
Kurtosis:	18.618
Minimum :	3.020
25th % :	5.835
Median :	15.210
75th % :	21.636
Maximum :	165.094



Normal Probability Plot for LN(Copper)
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	2.596
Variance:	.776
Std. Dev:	.881
% C.V. :	33.937
Skewness:	.481
Kurtosis:	3.438
Minimum :	1.105
25th % :	1.764
Median :	2.722
75th % :	3.073
Maximum :	5.107



$3.6 = 36$
Q

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	7560	Col-Fe	Number of samples		Uncensored values		Sort data	
3	9630	Col-Fe	Uncensored	59	Mean	22091.209	Create report	
4	9790	Col-Fe	Censored		Lognormal mean	22149.082	Clear all	
5	10763.2743	Col-Fe	Detection limit or PQL		Std. devn.	9552.362	Histogram	
6	10900	Col-Fe	Method detection limit		Median	19004.5249	5	10
7	11400	Col-Fe	TOTAL	59	Min.	7560	20	
8	11900	Col-Fe	ENTER DATA		Max	50355.094	Clear messages	
9	12104.0724	Col-Fe	Distribution Decision					
10	12256.5965	Col-Fe	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	12892.3767	Col-Fe	Lognormal distribution?		Normal distribution?		Lognormal	
12	13797.1698	Col-Fe	r-squared is: 0.985		r-squared is: 0.939		Normal	
13	14000	Col-Fe	Recommendations:					
14	14300	Col-Fe	Use lognormal distribution.					
15	14563.1068	Col-Fe	Upper Confidence Limit (UCL)					
16	14671.3615	Col-Fe						
17	15376.4581	Col-Fe						
18	15500	Col-Fe						
19	16000	Col-Fe						
20	16000	Col-Fe						
21	16000	Col-Fe						
22	16400	Col-Fe						
23	16628.1755	Col-Fe						
24	16700	Col-Fe						
25	16757.9409	Col-Fe						
26	16800	Col-Fe						
27	17000	Col-Fe						
28	17405.0633	Col-Fe						
29	18100	Col-Fe						
30	19000	Col-Fe						
31	19004.5249	Col-Fe						
32	20000	Col-Fe						
33	20200	Col-Fe						
34	21000	Col-Fe						
35	21000	Col-Fe						
36	22000	Col-Fe						
37	24000	Col-Fe						
38	25000	Col-Fe						
39	26000	Col-Fe						
40	26000	Col-Fe						
41	26000	Col-Fe						
42	26000	Col-Fe						
43	27578.457	Col-Fe						
44	28245.5405	Col-Fe						
45	29000	Col-Fe						
46	29035.8744	Col-Fe						
47	29074.754	Col-Fe						
48	30000	Col-Fe						
49	30200	Col-Fe						
50	31000	Col-Fe						
51	31200	Col-Fe						
52	33486.2385	Col-Fe						
53	34900	Col-Fe						
54	35069.703	Col-Fe						
55	35500	Col-Fe						
56	36000	Col-Fe						
57	39000	Col-Fe						
58	39335.574	Col-Fe						
59	44000	Col-Fe						
60	50355.094	Col-Fe						
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Background data analysis

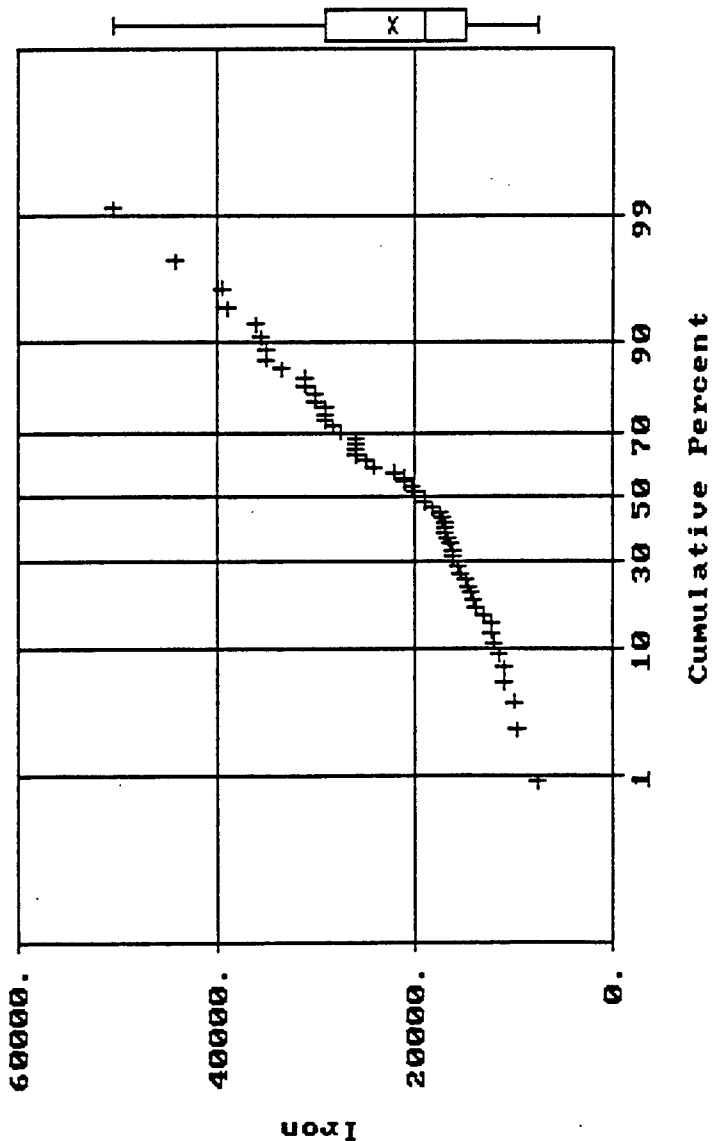
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	7560	Col-Fe	Number of samples				Sort data	
3	9630	Col-Fe	Uncensored values				Create report	
4	9790	Col-Fe	Uncensored	59	Mean	22091.209	Clear all	
5	10763.2743	Col-Fe	Censored		Lognormal mean	22149.082	Histogram	
6	10900	Col-Fe	Detection limit or PQL		Std. devn.	9552.362	5	10
7	11400	Col-Fe	Method detection limit		Median	19004.5249	20	
8	11900	Col-Fe	TOTAL	59	Min.	7560		
9	12104.0724	Col-Fe	ENTER DATA		Max.	50355.094		
10	12256.5865	Col-Fe	Distribution Decision					
11	12892.3767	Col-Fe	Probability plot method		W test	D'Agostino's test		
12	13797.1698	Col-Fe	Lognormal distribution?		Normal distribution?			
13	14000	Col-Fe	r-squared is: 0.985		r-squared is: 0.939			
14	14300	Col-Fe	Recommendations					
15	14563.1068	Col-Fe	Assume lognormal distribution.					
16	14671.3615	Col-Fe	Y value is 0.9047. This lies within the tabled values of 1.1073 and -2.7048					
17	15376.4581	Col-Fe						
18	15500	Col-Fe						
19	16000	Col-Fe						
20	16000	Col-Fe						
21	16000	Col-Fe						
22	16400	Col-Fe	Upper Confidence Limit (UCL)					
23	16628.1755	Col-Fe						
24	16700	Col-Fe						
25	16757.9409	Col-Fe						
26	16800	Col-Fe						
27	17000	Col-Fe						
28	17405.0633	Col-Fe						
29	18100	Col-Fe						
30	19000	Col-Fe						
31	19004.5249	Col-Fe						
32	20000	Col-Fe						
33	20200	Col-Fe						
34	21000	Col-Fe						
35	21000	Col-Fe						
36	22000	Col-Fe						
37	24000	Col-Fe						
38	25000	Col-Fe						
39	26000	Col-Fe						
40	26000	Col-Fe						
41	26000	Col-Fe						
42	26000	Col-Fe						
43	27578.457	Col-Fe						
44	28245.5405	Col-Fe						
45	29000	Col-Fe						
46	29035.8744	Col-Fe						
47	29074.754	Col-Fe						
48	30000	Col-Fe						
49	30200	Col-Fe						
50	31000	Col-Fe						
51	31200	Col-Fe						
52	33486.2385	Col-Fe						
53	34900	Col-Fe						
54	35069.703	Col-Fe						
55	35500	Col-Fe						
56	36000	Col-Fe						
57	39000	Col-Fe						
58	39335.574	Col-Fe						
59	44000	Col-Fe						
60	50355.094	Col-Fe						
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Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Iron
Data file: col-all.dat

Statistics

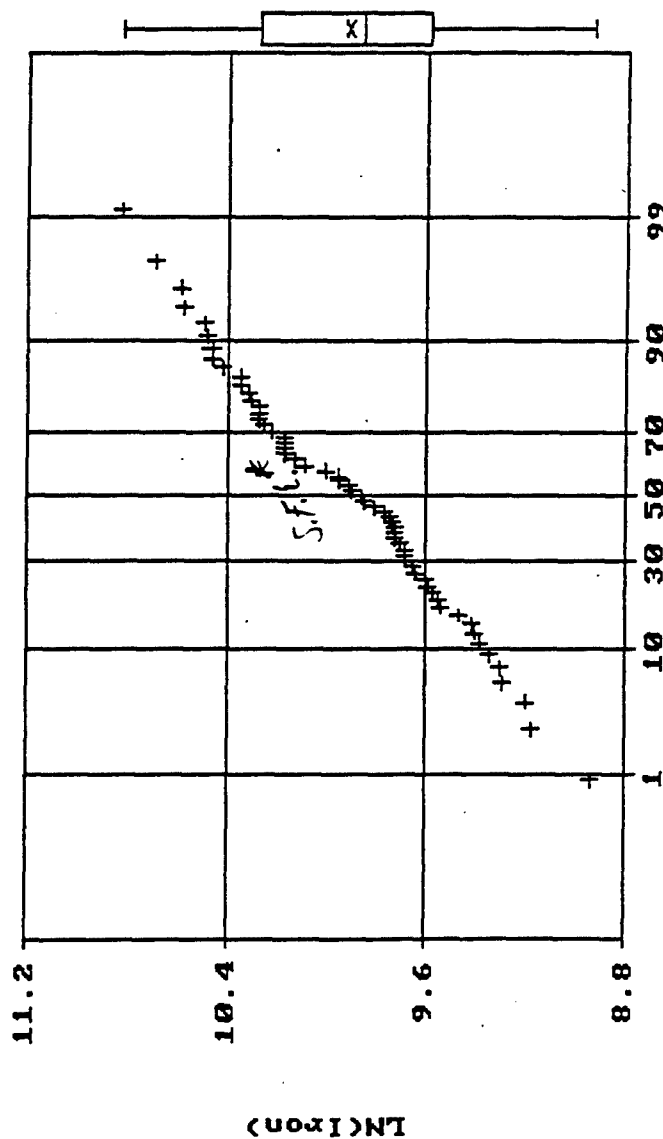
N Total :	62
N Miss :	3
N Used :	59
Mean :	22091.210
Variance:	91247620.000
Std. Dev:	9552.362
% C.V. :	43.241
Skewness:	.768
Kurtosis:	2.990
Minimum :	7560.000
25th % :	14644.300
Median :	19004.530
75th % :	29008.970
Maximum :	50355.090



Normal Probability Plot for LN(Iron)
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	9.913
Variance:	.186
Std. Dev:	.431
% C.V. :	4.348
Skewness:	.002
Kurtosis:	2.233
Minimum :	8.931
25th % :	9.592
Median :	9.852
75th % :	10.275
Maximum :	10.827



Cumulative Percent * *85.000000*

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0135	Col-Hg	Number of samples		Uncensored values		Sort data	
3	0.0135	Col-Hg	Uncensored	59	Mean	0.043	Create report	
4	0.0135	Col-Hg	Censored		Lognormal mean	0.040	Clear all	
5	0.0135	Col-Hg	Detection limit or PQL	-----	Std. devn.	0.045	Histogram	
6	0.0135	Col-Hg	Method detection limit	-----	Median	0.025	5	10
7	0.0135	Col-Hg	TOTAL	59	Min.	0.0135	20	
8	0.0135	Col-Hg	ENTER DATA		Max	0.258		
9	0.0135	Col-Hg	Distribution Decision					
10	0.0135	Col-Hg	Probability plot method		W test	D'Agostino's test		
11	0.025	Col-Hg	Lognormal distribution?		Normal distribution?			
12	0.025	Col-Hg	r-squared is: 0.830		r-squared is: 0.581			
13	0.025	Col-Hg	Recommendations					
14	0.025	Col-Hg	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.025	Col-Hg						
16	0.025	Col-Hg						
17	0.025	Col-Hg						
18	0.025	Col-Hg						
19	0.025	Col-Hg						
20	0.025	Col-Hg						
21	0.025	Col-Hg						
22	0.025	Col-Hg	Upper Confidence Limit (UCL)					
23	0.025	Col-Hg						
24	0.025	Col-Hg						
25	0.025	Col-Hg						
26	0.025	Col-Hg						
27	0.025	Col-Hg						
28	0.025	Col-Hg						
29	0.025	Col-Hg						
30	0.025	Col-Hg						
31	0.025	Col-Hg						
32	0.025	Col-Hg						
33	0.029	Col-Hg						
34	0.0295	Col-Hg						
35	0.0295	Col-Hg						
36	0.0295	Col-Hg						
37	0.0295	Col-Hg						
38	0.0295	Col-Hg						
39	0.0295	Col-Hg						
40	0.0295	Col-Hg						
41	0.0295	Col-Hg						
42	0.0295	Col-Hg						
43	0.0295	Col-Hg						
44	0.0295	Col-Hg						
45	0.031	Col-Hg						
46	0.031	Col-Hg						
47	0.035	Col-Hg						
48	0.042	Col-Hg						
49	0.049	Col-Hg						
50	0.057	Col-Hg						
51	0.067	Col-Hg						
52	0.076	Col-Hg						
53	0.0897	Col-Hg						
54	0.1041	Col-Hg						
55	0.106	Col-Hg						
56	0.108	Col-Hg						
57	0.1297	Col-Hg						
58	0.1682	Col-Hg						
59	0.17	Col-Hg						
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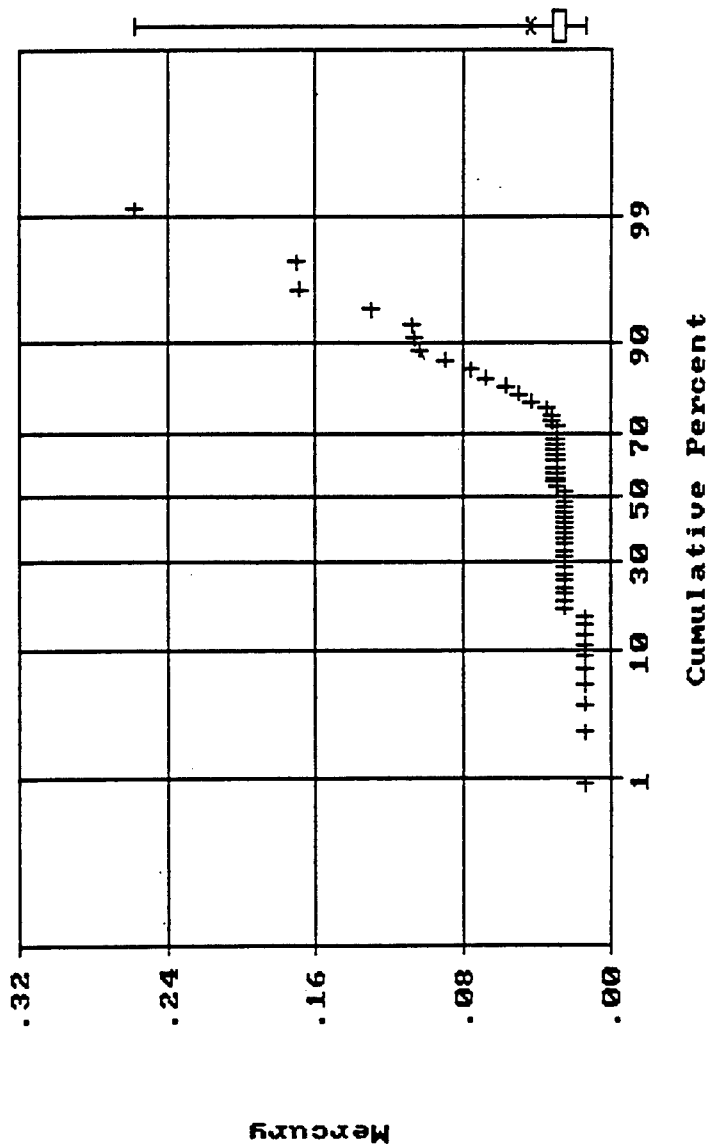
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0135	Col-Hg	Number of samples		Uncensored values		Sort data	
3	0.0135	Col-Hg	Uncensored	59	Mean	0.043	Create report	
4	0.0135	Col-Hg	Censored		Lognormal mean	0.040	Clear all	
5	0.0135	Col-Hg	Detection limit or PQL		Std. devn.	0.045	Histogram	
6	0.0135	Col-Hg	Method detection limit		Median	0.025	5	10
7	0.0135	Col-Hg	TOTAL	59	Min.	0.0135	20	
8	0.0135	Col-Hg	ENTER DATA		Max	0.258		
9	0.0135	Col-Hg	Distribution Decision					
10	0.0135	Col-Hg	Probability plot method		W test	D'Agostino's test		
11	0.0135	Col-Hg	Lognormal distribution?		Normal distribution?			
12	0.025	Col-Hg	r-squared is: 0.830		r-squared is: 0.581			
13	0.025	Col-Hg	Recommendations:					
14	0.025	Col-Hg	Reject lognormal distribution.					
15	0.025	Col-Hg	Y value is -7.5591. This lies outside the table values of 1.1073 and -2.7048					
16	0.025	Col-Hg	Reject normal distribution.					
17	0.025	Col-Hg	Y value is -20.8397. This lies outside the table values of 1.1073 and -2.7048					
18	0.025	Col-Hg	Upper Confidence Limit (UCL)					
19	0.025	Col-Hg						
20	0.025	Col-Hg						
21	0.025	Col-Hg						
22	0.025	Col-Hg						
23	0.025	Col-Hg						
24	0.025	Col-Hg						
25	0.025	Col-Hg						
26	0.025	Col-Hg						
27	0.025	Col-Hg						
28	0.025	Col-Hg						
29	0.025	Col-Hg						
30	0.025	Col-Hg						
31	0.025	Col-Hg						
32	0.025	Col-Hg						
33	0.029	Col-Hg						
34	0.0295	Col-Hg						
35	0.0295	Col-Hg						
36	0.0295	Col-Hg						
37	0.0295	Col-Hg						
38	0.0295	Col-Hg						
39	0.0295	Col-Hg						
40	0.0295	Col-Hg						
41	0.0295	Col-Hg						
42	0.0295	Col-Hg						
43	0.0295	Col-Hg						
44	0.0295	Col-Hg						
45	0.031	Col-Hg						
46	0.031	Col-Hg						
47	0.035	Col-Hg						
48	0.042	Col-Hg						
49	0.049	Col-Hg						
50	0.057	Col-Hg						
51	0.067	Col-Hg						
52	0.076	Col-Hg						
53	0.0897	Col-Hg						
54	0.1041	Col-Hg						
55	0.106	Col-Hg						
56	0.108	Col-Hg						
57	0.1297	Col-Hg						
58	0.1682	Col-Hg						
59	0.17	Col-Hg						
60	0.258	Col-Hg						
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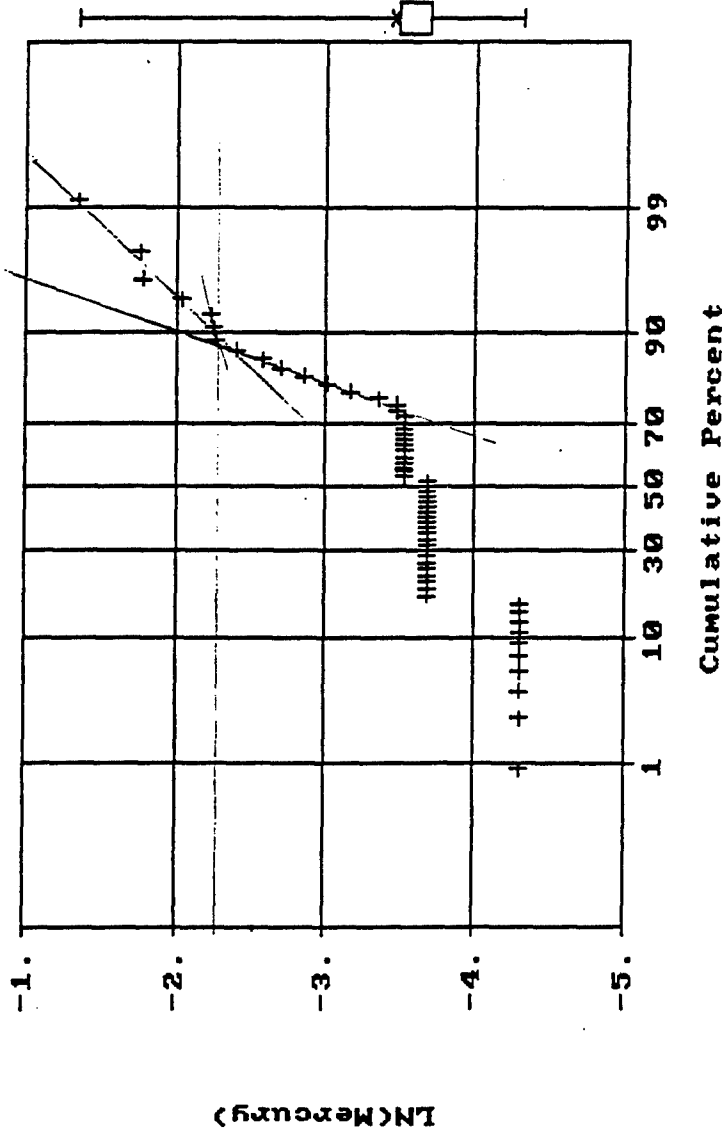
Normal Probability Plot for Mercury
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	.043
Variance:	.002
Std. Dev:	.045
% C.V. :	105.685
Skewness:	2.805
Kurtosis:	11.403
Minimum :	.014
25th % :	.025
Median :	.025
75th % :	.031
Maximum :	.258



Normal Probability Plot for LN(Mercury)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	-3.450
Variance:	.481
Std. Dev:	.694
% C.V. :	20.114
Skewness:	1.174
Kurtosis:	3.996
Minimum :	-4.305
25th % :	-3.689
Median :	-3.689
75th % :	-3.474
Maximum :	-1.355

$e^{-2.25} = 0.1$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	81.6	Col-Mn	Number of samples		Uncensored values		Sort data	
3	88.0871	Col-Mn	Uncensored	59	Mean	400.576	Create report	
4	91.8	Col-Mn	Censored		Lognormal mean	357.132	Clear all	
5	110	Col-Mn	Detection limit or PQL	-----	Std. devn.	686.797	Histogram	
6	120	Col-Mn	Method detection limit	-----	Median	288.9151	5 10 20	
7	131	Col-Mn	TOTAL	59	Min.	81.6	Clear messages	
8	132	Col-Mn	ENTER DATA		Max	5412.844	Calculate UCL	
9	133.8496	Col-Mn	Distribution Decision				Lognormal	
10	154	Col-Mn	Probability plot method		W test	D'Agostino's test	Normal	
11	164	Col-Mn	Lognormal distribution?		Normal distribution?		Neither	
12	167	Col-Mn	r-squared is: 0.885		r-squared is: 0.269		Sample size	
13	180.65	Col-Mn	Recommendations					
14	207	Col-Mn	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	216	Col-Mn	Upper Confidence Limit (UCL)					
16	224	Col-Mn						
17	224	Col-Mn						
18	226	Col-Mn						
19	226.5258	Col-Mn						
20	227.3756	Col-Mn						
21	231.0127	Col-Mn						
22	232.2375	Col-Mn						
23	240	Col-Mn						
24	243	Col-Mn						
25	244.3946	Col-Mn						
26	245	Col-Mn						
27	253.3632	Col-Mn						
28	261	Col-Mn						
29	269.7143	Col-Mn						
30	270.5367	Col-Mn						
31	288.9151	Col-Mn						
32	299	Col-Mn						
33	299.8921	Col-Mn						
34	302	Col-Mn						
35	303	Col-Mn						
36	311.877	Col-Mn						
37	323	Col-Mn						
38	334.548	Col-Mn						
39	335	Col-Mn						
40	348	Col-Mn						
41	364	Col-Mn						
42	373	Col-Mn						
43	374	Col-Mn						
44	376	Col-Mn						
45	381	Col-Mn						
46	382.3529	Col-Mn						
47	390	Col-Mn						
48	402.846	Col-Mn						
49	419	Col-Mn						
50	422	Col-Mn						
51	425	Col-Mn						
52	446.607	Col-Mn						
53	516	Col-Mn						
54	535	Col-Mn						
55	588.9145	Col-Mn						
56	596	Col-Mn						
57	618	Col-Mn						
58	741.033	Col-Mn						
59	1130	Col-Mn						
60	5412.844	Col-Mn						
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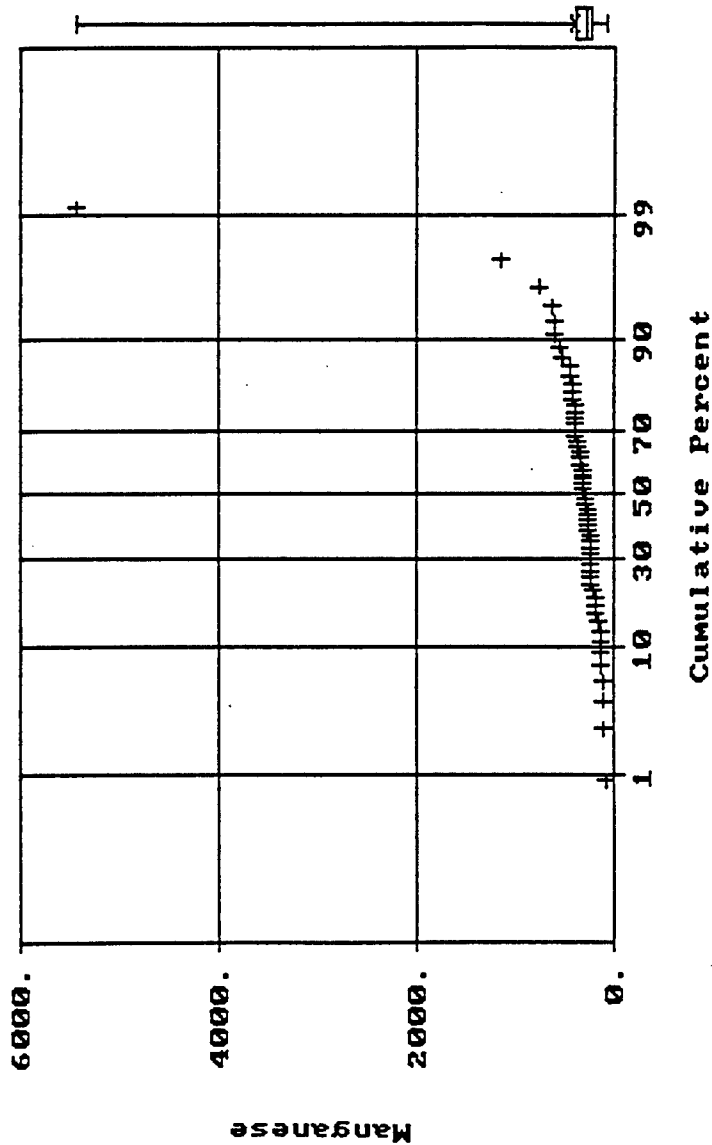
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	81.6	Col-Mn	Number of samples		Uncensored values		Sort data	
3	88.0871	Col-Mn	Uncensored 59		Mean 400.576		Create report	
4	91.8	Col-Mn	Censored		Lognormal mean 357.132		Clear all	
5	110	Col-Mn	Detection limit or PQL		Std. devn. 686.797		Histogram	
6	120	Col-Mn	Method detection limit		Median 288.9151		5 10 20	
7	131	Col-Mn	TOTAL 59		Min. 81.6		Clear messages	
8	132	Col-Mn	ENTER DATA		Max. 5412.844		Calculate UCL	
9	133.8496	Col-Mn	Distribution Decision					
10	154	Col-Mn	Probability plot method		W test	D'Agostino's test	Lognormal	
11	164	Col-Mn	Lognormal distribution?		Normal distribution?		Normal	
12	167	Col-Mn	r-squared is: 0.885		r-squared is: 0.269		Neither	
13	180.65	Col-Mn	Recommendations:					
14	207	Col-Mn	Reject lognormal distribution.					
15	216	Col-Mn	Y value is -5.6863. This lies outside the tabled values of 1.1073 and -2.7048					
16	224	Col-Mn	Reject normal distribution.					
17	224	Col-Mn	Y value is -40.2107. This lies outside the tabled values of 1.1073 and -2.7048					
18	226	Col-Mn	Upper Confidence Limit (UCL)					
19	226.5258	Col-Mn						
20	227.3756	Col-Mn						
21	231.0127	Col-Mn						
22	232.2375	Col-Mn						
23	240	Col-Mn						
24	243	Col-Mn						
25	244.3946	Col-Mn						
26	245	Col-Mn						
27	253.3632	Col-Mn						
28	261	Col-Mn						
29	269.7143	Col-Mn						
30	270.5367	Col-Mn						
31	288.9151	Col-Mn						
32	299	Col-Mn						
33	299.8921	Col-Mn						
34	302	Col-Mn						
35	303	Col-Mn						
36	311.877	Col-Mn						
37	323	Col-Mn						
38	334.548	Col-Mn						
39	335	Col-Mn						
40	348	Col-Mn						
41	364	Col-Mn						
42	373	Col-Mn						
43	374	Col-Mn						
44	376	Col-Mn						
45	381	Col-Mn						
46	382.3529	Col-Mn						
47	390	Col-Mn						
48	402.846	Col-Mn						
49	419	Col-Mn						
50	422	Col-Mn						
51	425	Col-Mn						
52	446.607	Col-Mn						
53	516	Col-Mn						
54	535	Col-Mn						
55	588.9145	Col-Mn						
56	596	Col-Mn						
57	618	Col-Mn						
58	741.033	Col-Mn						
59	1130	Col-Mn						
60	5412.844	Col-Mn						
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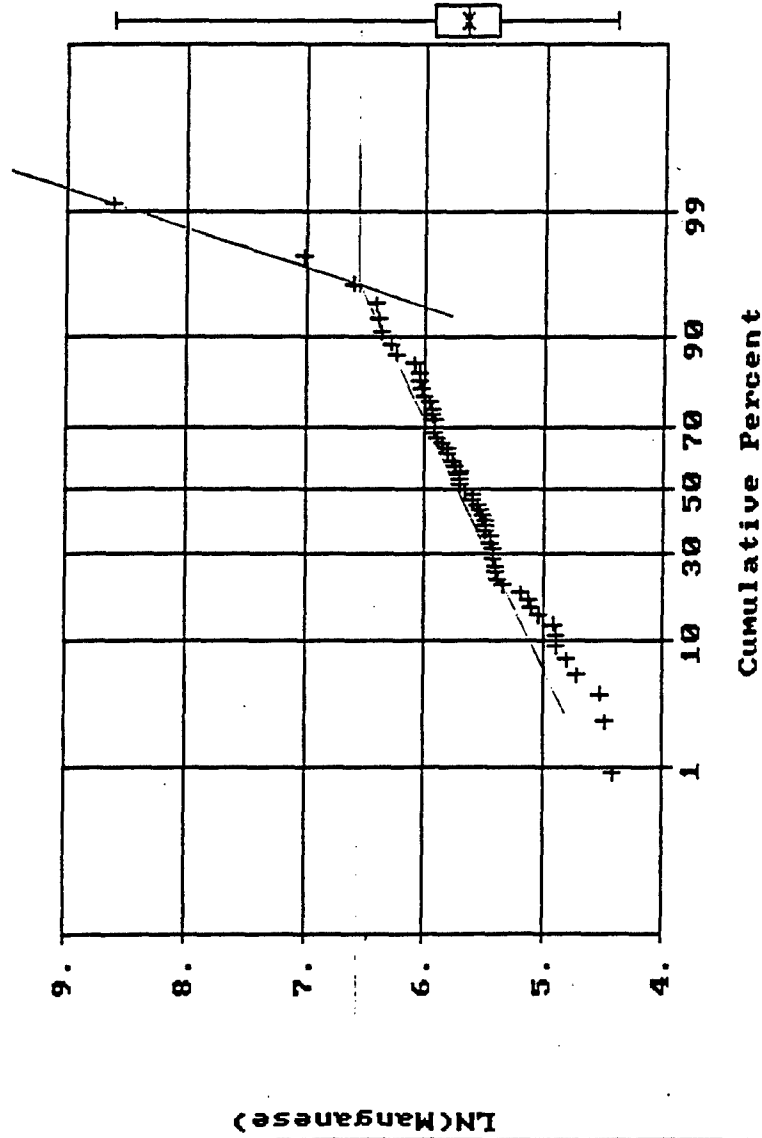
Normal Probability Plot for Manganese
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	400.576
Variance:	471690.500
Std. Dev:	686.797
% C.V. :	171.452
Skewness:	6.766
Kurtosis:	49.783
Minimum :	81.600
25th % :	222.000
Median :	288.915
75th % :	381.338
Maximum :	5412.844



Normal Probability Plot for LN(Manganese)
Data file: col-all.dat



S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	5.664
Variance:	.428
Std. Dev:	.655
% C.V. :	11.556
Skewness:	1.343
Kurtosis:	8.482
Minimum :	4.402
25th % :	5.403
Median :	5.666
75th % :	5.944
Maximum :	8.597

6.6 = 735

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	20.5752	Col-Ni	Number of samples		Uncensored values		Sort data	
3	31.1569	Col-Ni	Uncensored	59	Mean	107.062	Create report	
4	31.1778	Col-Ni	Censored		Lognormal mean	89.510	Clear all	
5	32.5	Col-Ni	Detection limit or PQL		Std. devn.	194.783	Histogram	
6	33.5	Col-Ni	Method detection limit		Median	61	5	10
7	34.6286	Col-Ni	TOTAL	59	Min.	20.5752	20	
8	36.6745	Col-Ni	ENTER DATA		Max.	1370	Clear messages	
9	37.2	Col-Ni	Distribution Decision					
10	37.4	Col-Ni	Probability plot method		W test	D'Agostino's test		
11	38.4942	Col-Ni	Lognormal distribution?		Normal distribution?			
12	40.3	Col-Ni	r-squared is: 0.807		r-squared is: 0.334			
13	41.2556	Col-Ni	Recommendations:					
14	41.3	Col-Ni	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	42.1	Col-Ni						
16	43.6	Col-Ni						
17	43.7	Col-Ni						
18	43.8	Col-Ni						
19	47.6	Col-Ni						
20	48.0769	Col-Ni						
21	48.5	Col-Ni	Upper Confidence Limit (UCL)					
22	50.2	Col-Ni						
23	51	Col-Ni						
24	51.5	Col-Ni						
25	51.81	Col-Ni						
26	53.9	Col-Ni						
27	54.3722	Col-Ni						
28	55.4	Col-Ni						
29	59.1	Col-Ni						
30	60.5	Col-Ni						
31	61	Col-Ni						
32	62.2	Col-Ni						
33	63.0282	Col-Ni						
34	63.6	Col-Ni						
35	64	Col-Ni						
36	67.8	Col-Ni						
37	69.3319	Col-Ni						
38	71.7	Col-Ni						
39	72.1	Col-Ni						
40	74.619	Col-Ni						
41	76.8485	Col-Ni						
42	78.481	Col-Ni						
43	79.7	Col-Ni						
44	81.889	Col-Ni						
45	81.9	Col-Ni						
46	84.195	Col-Ni						
47	88.422	Col-Ni						
48	89.1	Col-Ni						
49	91.3	Col-Ni						
50	97.5	Col-Ni						
51	105	Col-Ni						
52	106	Col-Ni						
53	106.563	Col-Ni						
54	110.0324	Col-Ni						
55	136	Col-Ni						
56	155	Col-Ni						
57	393	Col-Ni						
58	414	Col-Ni						
59	641.055	Col-Ni						
60	1370	Col-Ni						
61								
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

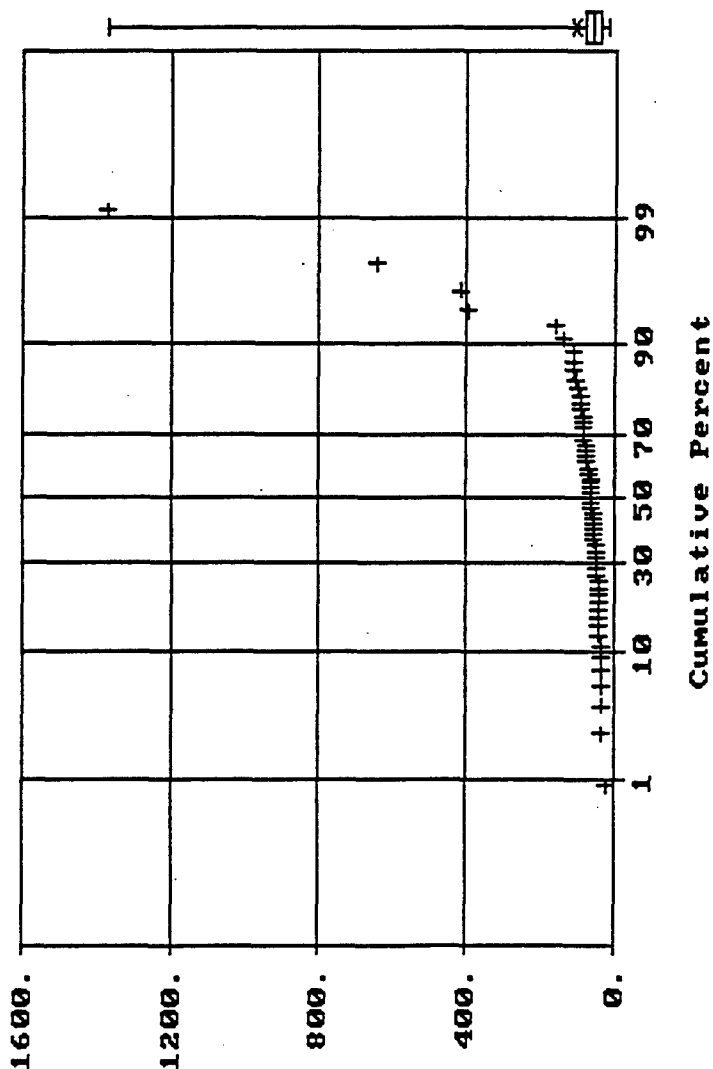
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	20.5752	Col-Ni	Number of samples Uncensored values				Sort data	
3	31.1569	Col-Ni	Uncensored	59	Mean	107.062	Create report	
4	31.1778	Col-Ni	Censored		Lognormal mean	89.510	Clear all	
5	32.5	Col-Ni	Detection limit or PQL		Std. devn.	194.783	Histogram	
6	33.5	Col-Ni	Method detection limit		Median	81	5	10
7	34.6286	Col-Ni	TOTAL	59	Min.	20.5752	20	
8	36.6745	Col-Ni	ENTER DATA		Max	1370	Clear messages	
9	37.2	Col-Ni	Distribution Decision				Calculate UCL	
10	37.4	Col-Ni	Probability plot method		W test	D'Agostino's test	Lognormal	
11	38.4942	Col-Ni	Lognormal distribution?		Normal distribution?		Normal	
12	40.3	Col-Ni	r-squared is: 0.807		r-squared is: 0.334		Neither	
13	41.2556	Col-Ni	Recommendations:					
14	41.3	Col-Ni	Reject lognormal distribution.					
15	42.1	Col-Ni	Y value is -9.8736. This lies outside the tabled values of 1.1073 and -2.7048					
16	43.6	Col-Ni	Reject normal distribution.					
17	43.7	Col-Ni	Y value is -36.3161. This lies outside the tabled values of 1.1073 and -2.7048					
18	43.8	Col-Ni	Upper Confidence Limit (UCL)					
19	47.6	Col-Ni						
20	48.0769	Col-Ni						
21	48.5	Col-Ni						
22	50.2	Col-Ni						
23	51	Col-Ni						
24	51.5	Col-Ni						
25	51.81	Col-Ni						
26	53.9	Col-Ni						
27	54.3722	Col-Ni						
28	55.4	Col-Ni						
29	59.1	Col-Ni						
30	60.5	Col-Ni						
31	61	Col-Ni						
32	62.2	Col-Ni						
33	63.0282	Col-Ni						
34	63.6	Col-Ni						
35	64	Col-Ni						
36	67.8	Col-Ni						
37	69.3319	Col-Ni						
38	71.7	Col-Ni						
39	72.1	Col-Ni						
40	74.619	Col-Ni						
41	76.8485	Col-Ni						
42	78.481	Col-Ni						
43	79.7	Col-Ni						
44	81.889	Col-Ni						
45	81.9	Col-Ni						
46	84.195	Col-Ni						
47	88.422	Col-Ni						
48	89.1	Col-Ni						
49	91.3	Col-Ni						
50	97.5	Col-Ni						
51	105	Col-Ni						
52	106	Col-Ni						
53	106.563	Col-Ni						
54	110.0324	Col-Ni						
55	136	Col-Ni						
56	155	Col-Ni						
57	393	Col-Ni						
58	414	Col-Ni						
59	641.055	Col-Ni						
60	1370	Col-Ni						
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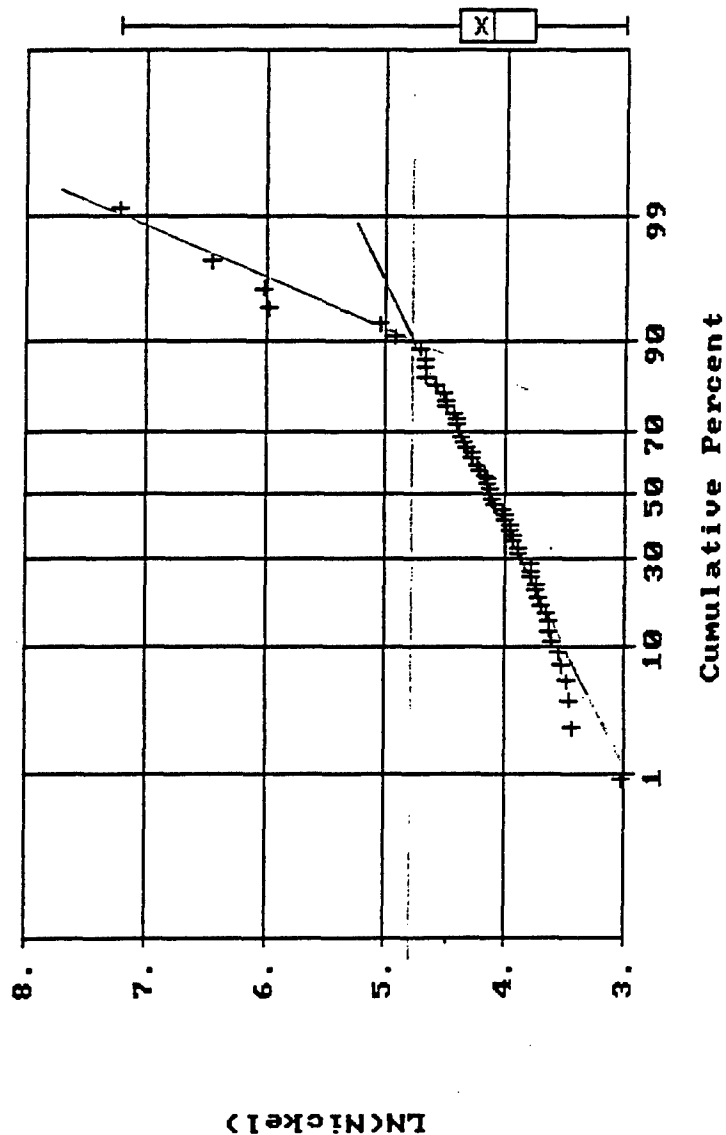
Normal Probability Plot for Nickel
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	107.062
Variance:	37940.540
Std. Dev:	194.783
% C.V. :	181.934
Skewness:	5.201
Kurtosis:	32.184
Minimum :	20.575
25th % :	43.225
Median :	61.000
75th % :	82.474
Maximum :	1370.000



Normal Probability Plot for LN(Nickel)
Data file: col-all.dat



S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	4.227
Variance:	.534
Std. Dev:	.731
% C.V. :	17.289
Skewness:	1.994
Kurtosis:	8.039
Minimum :	3.024
25th % :	3.766
Median :	4.111
75th % :	4.412
Maximum :	7.223

$e^{4.8 \sim 120}$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.2	Col-Pb	Number of samples		Uncensored values		Sort data	
3	1.68	Col-Pb	Uncensored	62	Mean	17.862	Create report	
4	1.8	Col-Pb	Censored		Lognormal mean	9.105	Clear all	
5	1.97	Col-Pb	Detection limit or PQL		Std. devn.	76.838	Histogram	
6	2.1	Col-Pb	Method detection limit		Median	3.89245	5	10
7	2.18	Col-Pb	TOTAL	62	Min.	1.2	20	
8	2.26	Col-Pb	ENTER DATA		Max	603.139		
9	2.35	Col-Pb	Distribution Decision					
10	2.37	Col-Pb	Probability plot method		W test	D'Agostino's test		
11	2.42	Col-Pb	Lognormal distribution?		Normal distribution?			
12	2.42	Col-Pb	r-squared is: 0.796		r-squared is: 0.166			
13	2.48	Col-Pb	Recommendations:					
14	2.58	Col-Pb	Reject lognormal distribution.					
15	2.6	Col-Pb	Y value is -10.3647. This lies outside the tabled values of 1.1272 and -2.6896					
16	2.73	Col-Pb	Reject normal distribution.					
17	2.7655	Col-Pb	Y value is -50.1699. This lies outside the tabled values of 1.1272 and -2.6896					
18	2.97	Col-Pb	Upper Confidence Limit (UCL)					
19	3.02	Col-Pb						
20	3.0399	Col-Pb						
21	3.06	Col-Pb						
22	3.08	Col-Pb						
23	3.24	Col-Pb						
24	3.3404	Col-Pb						
25	3.44	Col-Pb						
26	3.72	Col-Pb						
27	3.72	Col-Pb						
28	3.72	Col-Pb						
29	3.72	Col-Pb						
30	3.72	Col-Pb						
31	3.76	Col-Pb						
32	3.8445	Col-Pb						
33	3.9404	Col-Pb						
34	3.9723	Col-Pb						
35	3.9873	Col-Pb						
36	4.13	Col-Pb						
37	4.2	Col-Pb						
38	4.55	Col-Pb						
39	4.95	Col-Pb						
40	5.0226	Col-Pb						
41	5.55	Col-Pb						
42	5.6114	Col-Pb						
43	5.8184	Col-Pb						
44	6.31	Col-Pb						
45	6.4	Col-Pb						
46	6.51	Col-Pb						
47	7.0588	Col-Pb						
48	7.89	Col-Pb						
49	8.1078	Col-Pb						
50	8.13	Col-Pb						
51	8.18	Col-Pb						
52	9.7	Col-Pb						
53	10.971	Col-Pb						
54	11	Col-Pb						
55	11.1	Col-Pb						
56	12.5	Col-Pb						
57	13	Col-Pb						
58	19	Col-Pb						
59	30.6365	Col-Pb						
60	40.8019	Col-Pb						
61	58	Col-Pb						
62	90	Col-Pb						
63	603.139	Col-Pb						
64								
65								
66								
67								

Clear messages

 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.2	Col-Pb	Number of samples		Uncensored values		Sort data	
3	1.68	Col-Pb	Uncensored	62	Mean	17.862	Create report	
4	1.8	Col-Pb	Censored		Lognormal mean	9.105	Clear all	
5	1.97	Col-Pb	Detection limit or PQL		Std. devn.	76.838	Histogram	
6	2.1	Col-Pb	Method detection limit		Median	3.89245	5	10
7	2.18	Col-Pb	TOTAL	62	Min.	1.2	20	
8	2.26	Col-Pb	ENTER DATA		Max	603.139		
9	2.35	Col-Pb	Distribution Decision					
10	2.37	Col-Pb	Probability plot method		W test	D'Agostino's test		
11	2.42	Col-Pb	Lognormal distribution?		Normal distribution?			
12	2.42	Col-Pb	r-squared is: 0.796		r-squared is: 0.166			
13	2.48	Col-Pb	Recommendations					
14	2.58	Col-Pb	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	2.6	Col-Pb						
16	2.73	Col-Pb						
17	2.7655	Col-Pb						
18	2.97	Col-Pb						
19	3.02	Col-Pb						
20	3.0399	Col-Pb						
21	3.06	Col-Pb						
22	3.08	Col-Pb	Upper Confidence Limit (UCL)					
23	3.24	Col-Pb						
24	3.3404	Col-Pb						
25	3.44	Col-Pb						
26	3.72	Col-Pb						
27	3.72	Col-Pb						
28	3.72	Col-Pb						
29	3.72	Col-Pb						
30	3.72	Col-Pb						
31	3.76	Col-Pb						
32	3.8445	Col-Pb						
33	3.9404	Col-Pb						
34	3.9723	Col-Pb						
35	3.9873	Col-Pb						
36	4.13	Col-Pb						
37	4.2	Col-Pb						
38	4.55	Col-Pb						
39	4.95	Col-Pb						
40	5.0226	Col-Pb						
41	5.55	Col-Pb						
42	5.6114	Col-Pb						
43	5.8184	Col-Pb						
44	6.31	Col-Pb						
45	6.4	Col-Pb						
46	6.51	Col-Pb						
47	7.0588	Col-Pb						
48	7.89	Col-Pb						
49	8.1078	Col-Pb						
50	8.13	Col-Pb						
51	8.18	Col-Pb						
52	9.7	Col-Pb						
53	10.971	Col-Pb						
54	11	Col-Pb						
55	11.1	Col-Pb						
56	12.5	Col-Pb						
57	13	Col-Pb						
58	19	Col-Pb						
59	30.6365	Col-Pb						
60	40.8019	Col-Pb						
61	58	Col-Pb						
62	90	Col-Pb						
63	603.139	Col-Pb						
64								
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66								
67								

5

10

20

Clear messages

Calculate UCL

Lognormal

Normal

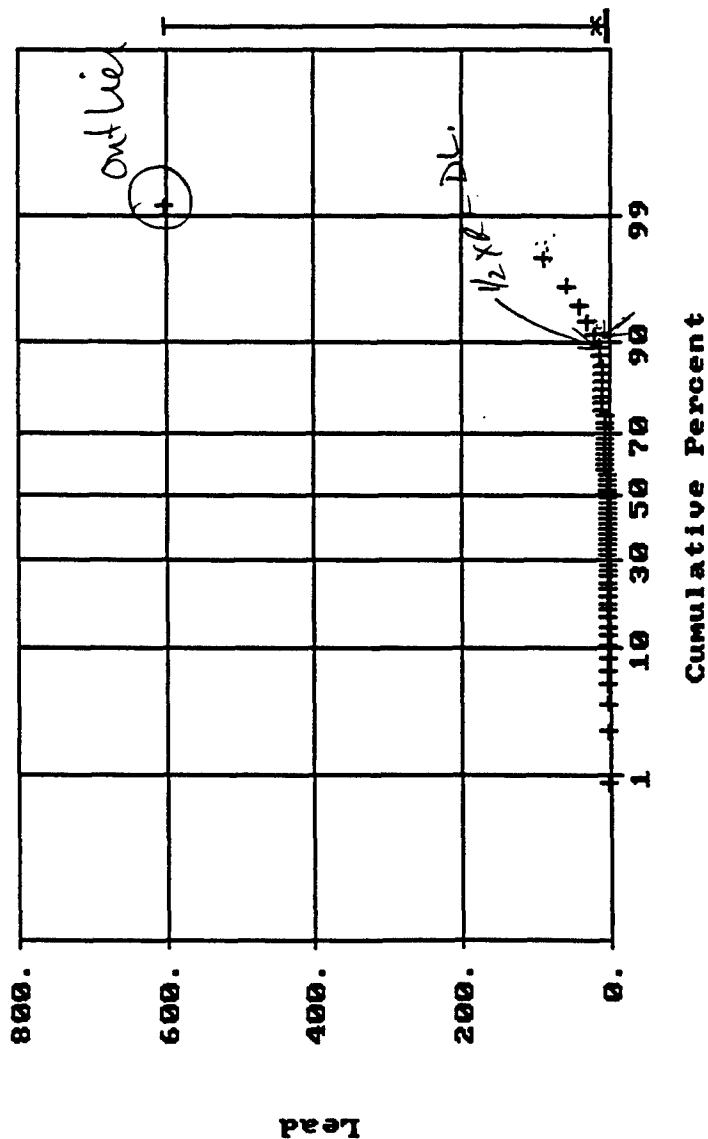
Neither

Sample size

Normal Probability Plot for Lead
Data file: col-all.dat

S t a t i s t i c s

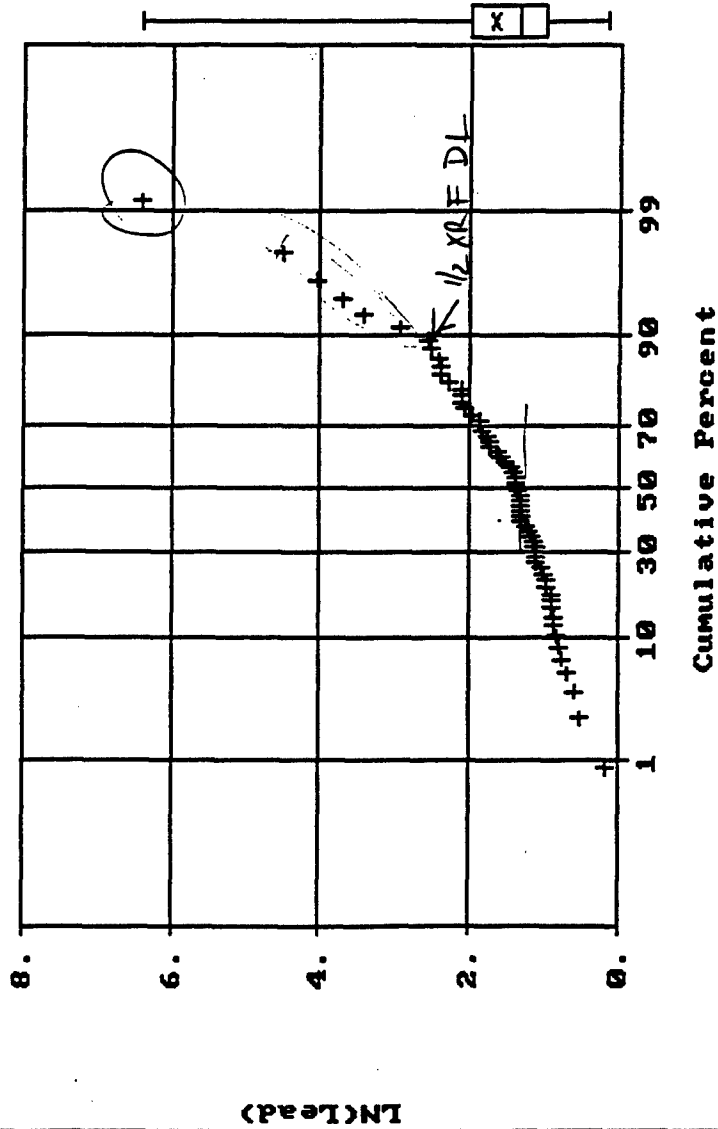
N Total :	62
N Miss :	0
N Used :	62
Mean :	17.862
Variance:	5904.101
Std. Dev:	76.838
% C.V. :	430.167
Skewness:	7.315
Kurtosis:	56.103
Minimum :	1.200
25th % :	2.748
Median :	3.892
75th % :	7.474
Maximum :	603.139



Normal Probability Plot for LN(Lead)
Data file: col-all.dat

Statistics

N Total :	62
N Miss :	0
N Used :	62
Mean :	1.668
Variance :	1.081
Std. Dev. :	1.040
% C.V. :	62.336
Skewness :	2.162
Kurtosis :	9.199
Minimum :	.182
25th % :	1.011
Median :	1.359
75th % :	2.010
Maximum :	6.402



1 outlier

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Sb	Number of samples		Uncensored values		Sort data	
3	0.2	Col-Sb	Uncensored	60	Mean	11.342	Create report	
4	0.2	Col-Sb	Censored	-----	Lognormal mean	30.076	Clear all	
5	0.2	Col-Sb	Detection limit or PQL	-----	Std. devn.	15.514	Histogram	
6	0.2	Col-Sb	Method detection limit	-----	Median	9.8	5	10
7	0.245	Col-Sb	TOTAL	60	Min.	0.05	20	
8	0.25	Col-Sb	ENTER DATA		Max	107	Clear messages	
9	0.25	Col-Sb	Distribution Decision					
10	0.25	Col-Sb	Probability plot method		W test	D'Agostino's test		
11	0.25	Col-Sb	Lognormal distribution?		Normal distribution?			
12	0.25	Col-Sb	r-squared is: 0.756		r-squared is: 0.549			
13	0.25	Col-Sb	Recommendations:					
14	0.25	Col-Sb	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.25	Col-Sb						
16	0.25	Col-Sb						
17	0.25	Col-Sb						
18	0.25	Col-Sb						
19	0.25	Col-Sb						
20	0.25	Col-Sb						
21	0.25	Col-Sb						
22	0.25	Col-Sb	Upper Confidence Limit (UCL)					
23	0.25	Col-Sb						
24	0.25	Col-Sb						
25	0.25	Col-Sb						
26	0.25	Col-Sb						
27	0.25	Col-Sb						
28	9.8	Col-Sb						
29	9.8	Col-Sb						
30	9.8	Col-Sb						
31	9.8	Col-Sb						
32	9.8	Col-Sb						
33	9.8	Col-Sb						
34	12.5	Col-Sb						
35	12.5	Col-Sb						
36	12.5	Col-Sb						
37	12.5	Col-Sb						
38	12.5	Col-Sb						
39	12.5	Col-Sb						
40	20.65	Col-Sb						
41	20.65	Col-Sb						
42	20.65	Col-Sb						
43	20.65	Col-Sb						
44	20.65	Col-Sb						
45	20.65	Col-Sb						
46	20.65	Col-Sb						
47	20.65	Col-Sb						
48	20.65	Col-Sb						
49	20.65	Col-Sb						
50	20.65	Col-Sb						
51	20.65	Col-Sb						
52	20.65	Col-Sb						
53	20.65	Col-Sb						
54	20.65	Col-Sb						
55	20.65	Col-Sb						
56	20.65	Col-Sb						
57	20.65	Col-Sb						
58	20.65	Col-Sb						
59	20.65	Col-Sb						
60	20.65	Col-Sb						
61	107	Col-Sb						
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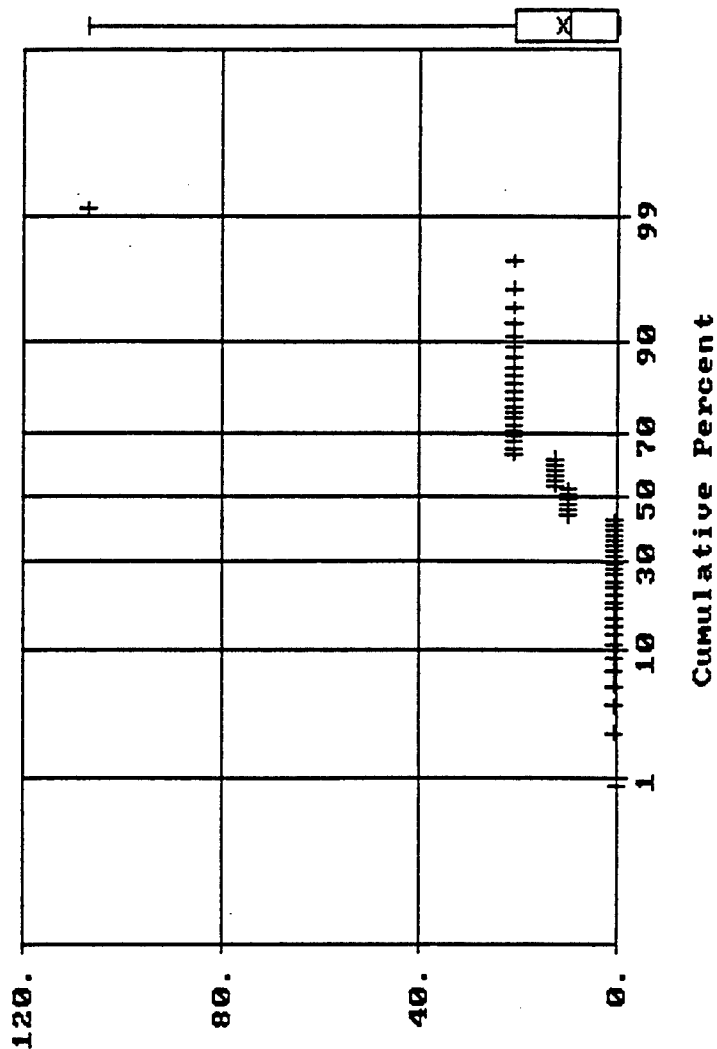
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Col-Sb	Number of samples Uncensored values				Sort data	
3	0.2	Col-Sb	Uncensored	60	Mean	11.342	Create report	
4	0.2	Col-Sb	Censored		Lognormal mean	30.076	Clear all	
5	0.2	Col-Sb	Detection limit or PQL		Std. devn.	15.514	Histogram	
6	0.2	Col-Sb	Method detection limit		Median	9.8	5	10
7	0.245	Col-Sb	TOTAL	60	Min.	0.05	20	
8	0.25	Col-Sb	ENTER DATA		Max	107		
9	0.25	Col-Sb	Distribution Decision					
10	0.25	Col-Sb	Probability plot method		W test	D'Agostino's test		
11	0.25	Col-Sb	Lognormal distribution?		Normal distribution?			
12	0.25	Col-Sb	r-squared is: 0.756		r-squared is: 0.549			
13	0.25	Col-Sb	Recommendations					
14	0.25	Col-Sb	Reject lognormal distribution.					
15	0.25	Col-Sb	Y value is -5.1942. This lies outside the tabled values of 1.115 and -2.699					
16	0.25	Col-Sb	Reject normal distribution.					
17	0.25	Col-Sb	Y value is -19.7157. This lies outside the tabled values of 1.115 and -2.699					
18	0.25	Col-Sb	Upper Confidence Limit (UCL)					
19	0.25	Col-Sb						
20	0.25	Col-Sb						
21	0.25	Col-Sb						
22	0.25	Col-Sb						
23	0.25	Col-Sb						
24	0.25	Col-Sb						
25	0.25	Col-Sb						
26	0.25	Col-Sb						
27	0.25	Col-Sb						
28	9.8	Col-Sb						
29	9.8	Col-Sb						
30	9.8	Col-Sb						
31	9.8	Col-Sb						
32	9.8	Col-Sb						
33	9.8	Col-Sb						
34	12.5	Col-Sb						
35	12.5	Col-Sb						
36	12.5	Col-Sb						
37	12.5	Col-Sb						
38	12.5	Col-Sb						
39	12.5	Col-Sb						
40	20.65	Col-Sb						
41	20.65	Col-Sb						
42	20.65	Col-Sb						
43	20.65	Col-Sb						
44	20.65	Col-Sb						
45	20.65	Col-Sb						
46	20.65	Col-Sb						
47	20.65	Col-Sb						
48	20.65	Col-Sb						
49	20.65	Col-Sb						
50	20.65	Col-Sb						
51	20.65	Col-Sb						
52	20.65	Col-Sb						
53	20.65	Col-Sb						
54	20.65	Col-Sb						
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56	20.65	Col-Sb						
57	20.65	Col-Sb						
58	20.65	Col-Sb						
59	20.65	Col-Sb						
60	20.65	Col-Sb						
61	107	Col-Sb						
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Normal Probability Plot for Antimony
Data file: col-all.dat

S t a t i s t i c s

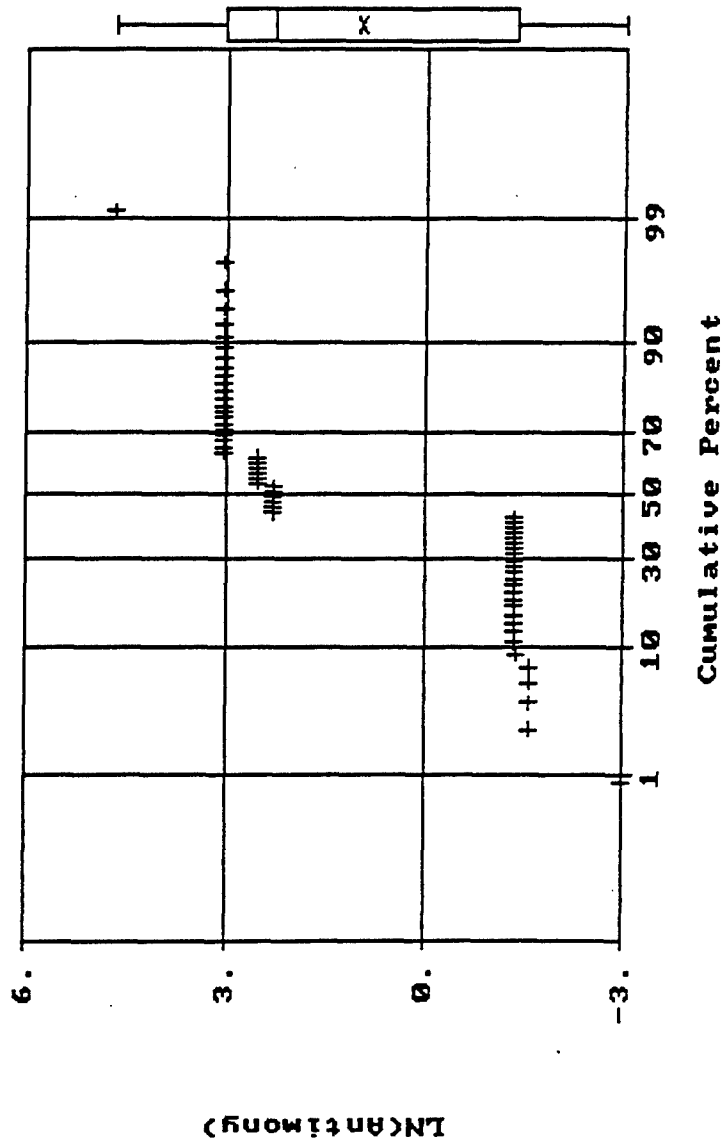
N Total :	62
N Miss :	2
N Used :	60
Mean :	11.342
Variance:	240.679
Std. Dev:	15.514
% C.V. :	136.777
Skewness:	3.921
Kurtosis:	25.079
Minimum :	.050
25th % :	.250
Median :	9.800
75th % :	20.650
Maximum :	107.000



Normal Probability Plot for LN(Antimony)
Data file: col-all.dat

Statistics

N Total :	62
N Miss :	2
N Used :	60
Mean :	.976
Variance :	4.856
Std. Dev :	2.204
% C.V. :	225.872
Skewness :	-.225
Kurtosis :	1.238
Minimum :	-2.996
25th % :	-1.386
Median :	2.282
75th % :	3.028
Maximum :	4.673



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Col-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Col-Se	Uncensored	59	Mean	0.311	Create report	
4	0.125	Col-Se	Censored		Lognormal mean	0.277	Clear all	
5	0.125	Col-Se	Detection limit or PQL		Std. devn.	0.478	Histogram	
6	0.125	Col-Se	Method detection limit		Median	0.2245	5	10
7	0.125	Col-Se	TOTAL	59	Min.	0.125	20	
8	0.125	Col-Se	ENTER DATA		Max	3.6792	Clear messages	
9	0.125	Col-Se	Distribution Decision					
10	0.125	Col-Se	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	0.125	Col-Se	Lognormal distribution?		Normal distribution?		Lognormal	
12	0.125	Col-Se	r-squared is: 0.750		r-squared is: 0.302		Normal	
13	0.125	Col-Se	Recommendations					
14	0.125	Col-Se	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.125	Col-Se						
16	0.125	Col-Se						
17	0.125	Col-Se						
18	0.208	Col-Se	Upper Confidence Limit (UCL)					
19	0.208	Col-Se						
20	0.208	Col-Se						
21	0.208	Col-Se						
22	0.208	Col-Se						
23	0.208	Col-Se						
24	0.208	Col-Se						
25	0.208	Col-Se						
26	0.208	Col-Se						
27	0.208	Col-Se						
28	0.208	Col-Se						
29	0.208	Col-Se						
30	0.208	Col-Se						
31	0.2245	Col-Se						
32	0.2245	Col-Se						
33	0.2245	Col-Se						
34	0.2245	Col-Se						
35	0.2245	Col-Se						
36	0.2245	Col-Se						
37	0.25	Col-Se						
38	0.25	Col-Se						
39	0.25	Col-Se						
40	0.25	Col-Se						
41	0.25	Col-Se						
42	0.25	Col-Se						
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44	0.25	Col-Se						
45	0.25	Col-Se						
46	0.25	Col-Se						
47	0.25	Col-Se						
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49	0.25	Col-Se						
50	0.25	Col-Se						
51	0.25	Col-Se						
52	0.25	Col-Se						
53	0.4	Col-Se						
54	0.456	Col-Se						
55	0.546	Col-Se						
56	0.564	Col-Se						
57	0.817	Col-Se						
58	0.832	Col-Se						
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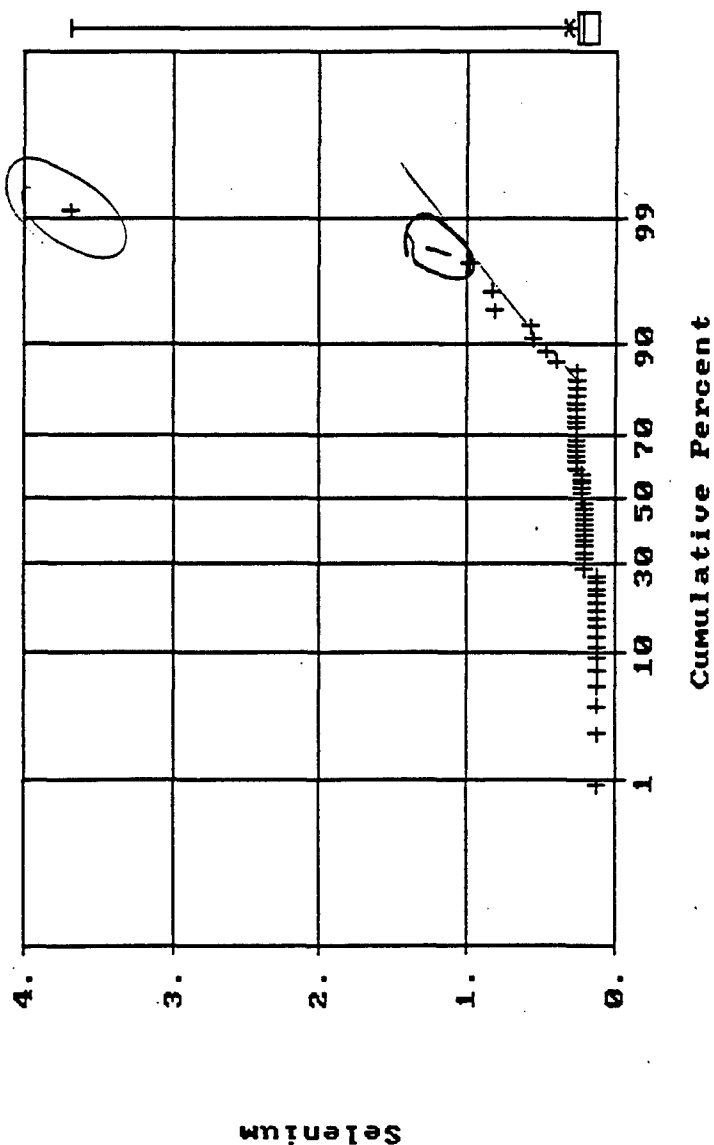
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Col-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Col-Se	Uncensored	59	Mean	0.311	Create report	
4	0.125	Col-Se	Censored		Lognormal mean	0.277	Clear all	
5	0.125	Col-Se	Detection limit or PQL		Std. devn.	0.478	Histogram	
6	0.125	Col-Se	Method detection limit		Median	0.2245	5	10
7	0.125	Col-Se	TOTAL	59	Min.	0.125	20	
8	0.125	Col-Se	ENTER DATA		Max	3.6792	Clear messages	
9	0.125	Col-Se	Distribution Decision				Calculate UCL	
10	0.125	Col-Se	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.125	Col-Se	Lognormal distribution?		Normal distribution?		Normal	
12	0.125	Col-Se	r-squared is: 0.750		r-squared is: 0.302		Neither	
13	0.125	Col-Se	Recommendations					
14	0.125	Col-Se	Reject lognormal distribution.					
15	0.125	Col-Se	Y value is -11.8517. This lies outside the table values of 1.1073 and -2.7048					
16	0.125	Col-Se	Reject normal distribution.					
17	0.125	Col-Se	Y value is -38.1333. This lies outside the table values of 1.1073 and -2.7048					
18	0.208	Col-Se	Upper Confidence Limit (UCL)					
19	0.208	Col-Se						
20	0.208	Col-Se						
21	0.208	Col-Se						
22	0.208	Col-Se						
23	0.208	Col-Se						
24	0.208	Col-Se						
25	0.208	Col-Se						
26	0.208	Col-Se						
27	0.208	Col-Se						
28	0.208	Col-Se						
29	0.208	Col-Se						
30	0.208	Col-Se						
31	0.2245	Col-Se						
32	0.2245	Col-Se						
33	0.2245	Col-Se						
34	0.2245	Col-Se						
35	0.2245	Col-Se						
36	0.2245	Col-Se						
37	0.25	Col-Se						
38	0.25	Col-Se						
39	0.25	Col-Se						
40	0.25	Col-Se						
41	0.25	Col-Se						
42	0.25	Col-Se						
43	0.25	Col-Se						
44	0.25	Col-Se						
45	0.25	Col-Se						
46	0.25	Col-Se						
47	0.25	Col-Se						
48	0.25	Col-Se						
49	0.25	Col-Se						
50	0.25	Col-Se						
51	0.25	Col-Se						
52	0.25	Col-Se						
53	0.4	Col-Se						
54	0.456	Col-Se						
55	0.546	Col-Se						
56	0.564	Col-Se						
57	0.817	Col-Se						
58	0.832	Col-Se						
59	0.987	Col-Se						
60	3.6792	Col-Se						
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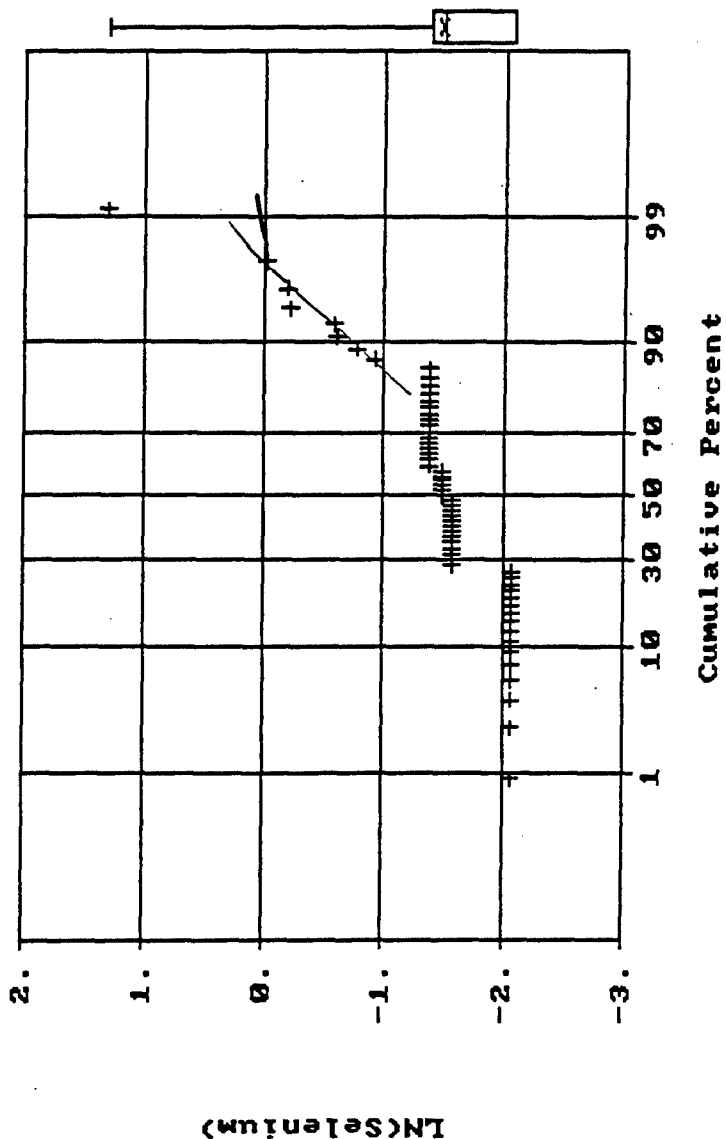
Normal Probability Plot for Selenium
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	.311
Variance:	.229
Std. Dev:	.478
% C.V. :	153.962
Skewness:	6.149
Kurtosis:	43.242
Minimum :	.125
25th % :	.125
Median :	.225
75th % :	.250
Maximum :	3.679



Normal Probability Plot for LN(Selenium)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	-1.471
Variance :	.372
Std. Dev. :	.610
% C.V. :	41.469
Skewness :	2.059
Kurtosis :	9.214
Minimum :	-2.079
25th % :	-2.079
Median :	-1.494
75th % :	-1.386
Maximum :	1.303

$\rho^2 = 1$

Background data analysis

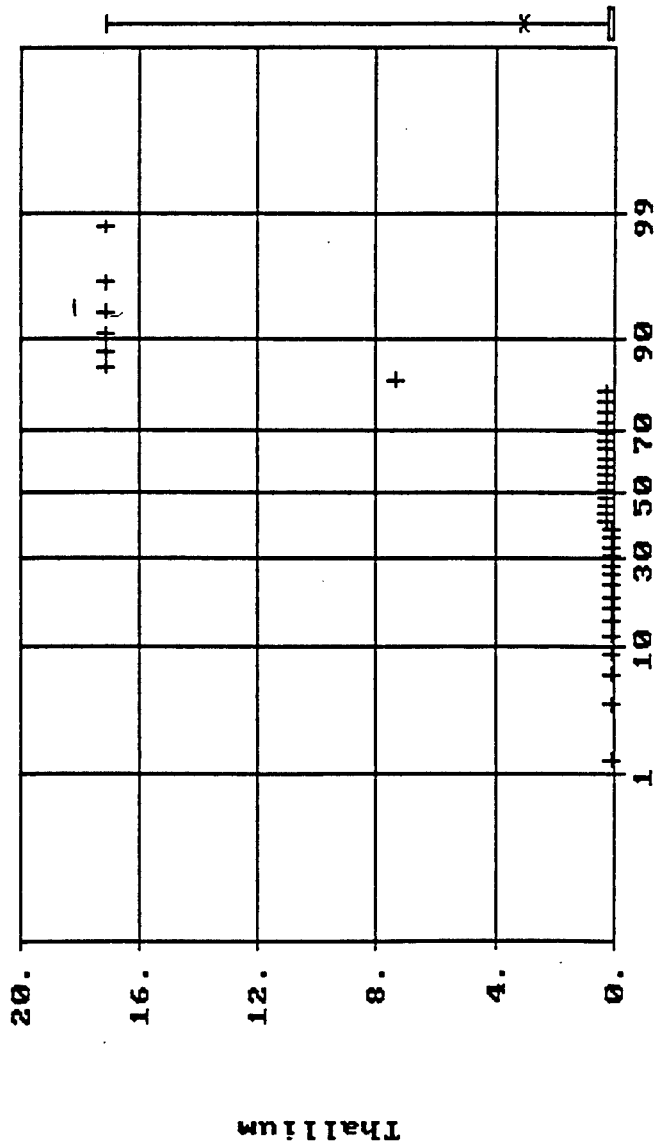
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Col-TI	Number of samples		Uncensored values		Sort data	
3	0.081	Col-TI	Uncensored	38	Mean	3.039	Create report	
4	0.081	Col-TI	Censored		Lognormal mean	2.090	Clear all	
5	0.081	Col-TI	Detection limit or PQL		Std. devn.	6.301	Histogram	
6	0.081	Col-TI	Method detection limit		Median	0.25	5	10
7	0.081	Col-TI	TOTAL	38	Min.	0.081	20	
8	0.081	Col-TI	ENTER DATA		Max.	17.15	Clear messages	
9	0.081	Col-TI	Distribution Decision				Calculate UCL	
10	0.081	Col-TI	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.081	Col-TI	Lognormal distribution?		Normal distribution?		Normal	
12	0.081	Col-TI	r-squared is: 0.682		r-squared is: 0.488		Neither	
13	0.081	Col-TI	Recommendations				Sample size	
14	0.081	Col-TI	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.081	Col-TI						
16	0.081	Col-TI						
17	0.25	Col-TI	Upper Confidence Limit (UCL)					
18	0.25	Col-TI						
19	0.25	Col-TI						
20	0.25	Col-TI						
21	0.25	Col-TI						
22	0.25	Col-TI						
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28	0.25	Col-TI						
29	0.25	Col-TI						
30	0.25	Col-TI						
31	0.25	Col-TI						
32	0.25	Col-TI						
33	7.35	Col-TI						
34	17.15	Col-TI						
35	17.15	Col-TI						
36	17.15	Col-TI						
37	17.15	Col-TI						
38	17.15	Col-TI						
39	17.15	Col-TI						
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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Col-Ti	Number of samples		Uncensored values		Sort data	
3	0.081	Col-Ti	Uncensored	38	Mean	3.039	Create report	
4	0.081	Col-Ti	Censored		Lognormal mean	2.090	Clear all	
5	0.081	Col-Ti	Detection limit or PQL	-----	Std. devn.	6.301	Histogram	
6	0.081	Col-Ti	Method detection limit		Median	0.25	5	10
7	0.081	Col-Ti	TOTAL	38	Min.	0.081	20	
8	0.081	Col-Ti	ENTER DATA		Max	17.15		
9	0.081	Col-Ti	Distribution Decision					
10	0.081	Col-Ti	Probability plot method		W test	D'Agostino's test		
11	0.081	Col-Ti	Lognormal distribution?		Normal distribution?			
12	0.081	Col-Ti	r-squared is: 0.682		r-squared is: 0.488			
13	0.081	Col-Ti	Recommendations:					
14	0.081	Col-Ti	Reject lognormal distribution.					
15	0.081	Col-Ti	W value is 0.666. This is less than the tabled value of 0.938					
16	0.25	Col-Ti	Reject normal distribution.					
17	0.25	Col-Ti	W value is 0.481. This is less than the tabled value of 0.938					
18	0.25	Col-Ti	Upper Confidence Limit (UCL)					
19	0.25	Col-Ti						
20	0.25	Col-Ti						
21	0.25	Col-Ti						
22	0.25	Col-Ti						
23	0.25	Col-Ti						
24	0.25	Col-Ti						
25	0.25	Col-Ti						
26	0.25	Col-Ti						
27	0.25	Col-Ti						
28	0.25	Col-Ti						
29	0.25	Col-Ti						
30	0.25	Col-Ti						
31	0.25	Col-Ti						
32	0.25	Col-Ti						
33	7.35	Col-Ti						
34	17.15	Col-Ti						
35	17.15	Col-Ti						
36	17.15	Col-Ti						
37	17.15	Col-Ti						
38	17.15	Col-Ti						
39	17.15	Col-Ti						
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Thallium
Data file: col-all.dat



S t a t i s t i c s

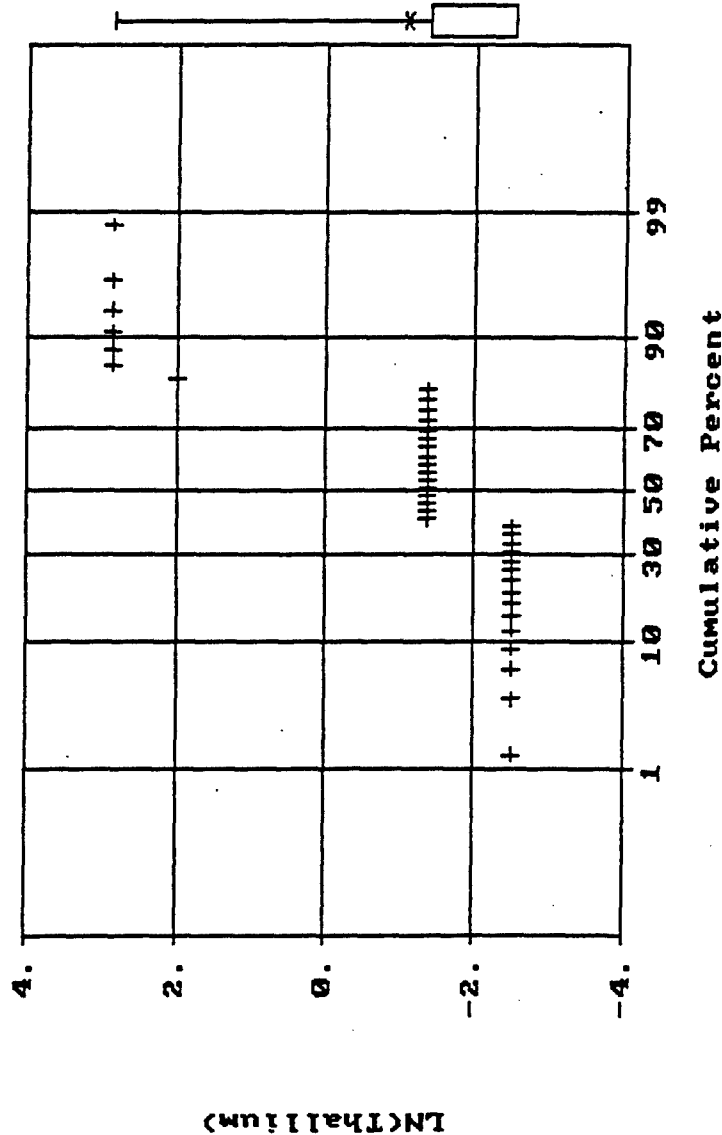
N Total :	62
N Miss :	24
N Used :	38
Mean :	3.039
Variance:	39.703
Std. Dev:	6.301
% C.V. :	207.369
Skewness:	1.774
Kurtosis:	4.233
Minimum :	.081
25th % :	.081
Median :	.250
75th % :	.250
Maximum :	17.150

ALL DETECTED

Normal Probability Plot for LN(Thallium)
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	24
N Used :	38
Mean :	-1.075
Variance:	3.623
Std. Dev:	1.903
% C.V. :	177.140
Skewness:	1.367
Kurtosis:	3.309
Minimum :	-2.513
25th % :	-2.513
Median :	-1.386
75th % :	-1.386
Maximum :	2.842



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASTat Site Module V2.0				Paste values	
2	12	Col-V	Number of samples		Uncensored values		Sort data	
3	16.5	Col-V	Uncensored	59	Mean	50.305	Create report	
4	19	Col-V	Censored		Lognormal mean	50.795	Clear all	
5	19.6	Col-V	Detection limit or PQL	-----	Std. devn.	20.722	Histogram	
6	23.8	Col-V	Method detection limit	-----	Median	46.9	5	10
7	27.5	Col-V	TOTAL	59	Min.	12	20	
8	29	Col-V	ENTER DATA		Max	107.952		
9	29.1	Col-V	Distribution Decision					
10	29.2	Col-V	Probability plot method		W test	D'Agostino's test		
11	31	Col-V	Lognormal distribution?		Normal distribution?			
12	31.6	Col-V	r-squared is: 0.973		r-squared is: 0.975			
13	32.7	Col-V	Recommendations:					
14	33.296	Col-V	Use lognormal distribution.					
15	34.0708	Col-V						
16	34.6698	Col-V						
17	34.7	Col-V						
18	34.9548	Col-V						
19	36.2	Col-V						
20	37.2066	Col-V						
21	39.8058	Col-V	Upper Confidence Limit (UCL)					
22	40.3	Col-V						
23	40.9	Col-V						
24	41.5695	Col-V						
25	42.3826	Col-V						
26	43.1	Col-V						
27	43.264	Col-V						
28	43.6709	Col-V						
29	44.7964	Col-V						
30	45.843	Col-V						
31	46.9	Col-V						
32	48	Col-V						
33	48	Col-V						
34	49	Col-V						
35	49.2	Col-V						
36	49.9	Col-V						
37	54.9	Col-V						
38	55.4	Col-V						
39	55.821	Col-V						
40	56.1	Col-V						
41	57.5	Col-V						
42	60.2018	Col-V						
43	60.3	Col-V						
44	61.1	Col-V						
45	63.3	Col-V						
46	64.9143	Col-V						
47	69.9	Col-V						
48	69.9785	Col-V						
49	70.6	Col-V						
50	71.9	Col-V						
51	72.792	Col-V						
52	72.8	Col-V						
53	73.6	Col-V						
54	80	Col-V						
55	80.274	Col-V						
56	81.9954	Col-V						
57	85.324	Col-V						
58	85.8	Col-V						
59	92.8	Col-V						
60	107.952	Col-V						
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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	12	Col-V	Number of samples		Uncensored values		Sort data	
3	16.5	Col-V	Uncensored	59	Mean	50.305	Create report	
4	19	Col-V	Censored		Lognormal mean	50.795	Clear all	
5	19.6	Col-V	Detection limit or PQL		Std. devn.	20.722	Histogram	
6	23.8	Col-V	Method detection limit		Median	46.9	5	10
7	27.5	Col-V	TOTAL	59	Min.	12	20	
8	29	Col-V	ENTER DATA		Max	107.952		
9	29.1	Col-V	Distribution Decision					
10	29.2	Col-V	Probability plot method		W test	D'Agostino's test		
11	31	Col-V	Lognormal distribution?		Normal distribution?			
12	31.6	Col-V	r-squared is: 0.973		r-squared is: 0.975			
13	32.7	Col-V	Recommendations:					
14	33.296	Col-V	Assume lognormal distribution.					
15	34.0708	Col-V	Y value is -0.8204. This lies within the tabled values of -1.1073 and -2.7048					
16	34.6698	Col-V						
17	34.7	Col-V						
18	34.9548	Col-V						
19	36.2	Col-V						
20	37.2066	Col-V						
21	39.8058	Col-V	Upper Confidence Limit (UCL)					
22	40.3	Col-V						
23	40.9	Col-V						
24	41.5695	Col-V						
25	42.3826	Col-V						
26	43.1	Col-V						
27	43.264	Col-V						
28	43.6709	Col-V						
29	44.7964	Col-V						
30	45.843	Col-V						
31	46.9	Col-V						
32	48	Col-V						
33	48	Col-V						
34	49	Col-V						
35	49.2	Col-V						
36	49.9	Col-V						
37	54.9	Col-V						
38	55.4	Col-V						
39	55.821	Col-V						
40	56.1	Col-V						
41	57.5	Col-V						
42	60.2018	Col-V						
43	60.3	Col-V						
44	61.1	Col-V						
45	63.3	Col-V						
46	64.9143	Col-V						
47	69.9	Col-V						
48	69.9785	Col-V						
49	70.6	Col-V						
50	71.9	Col-V						
51	72.792	Col-V						
52	72.8	Col-V						
53	73.6	Col-V						
54	80	Col-V						
55	80.274	Col-V						
56	81.9934	Col-V						
57	85.324	Col-V						
58	85.8	Col-V						
59	92.8	Col-V						
60	107.952	Col-V						
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Calculate UCL

Lognormal

Normal

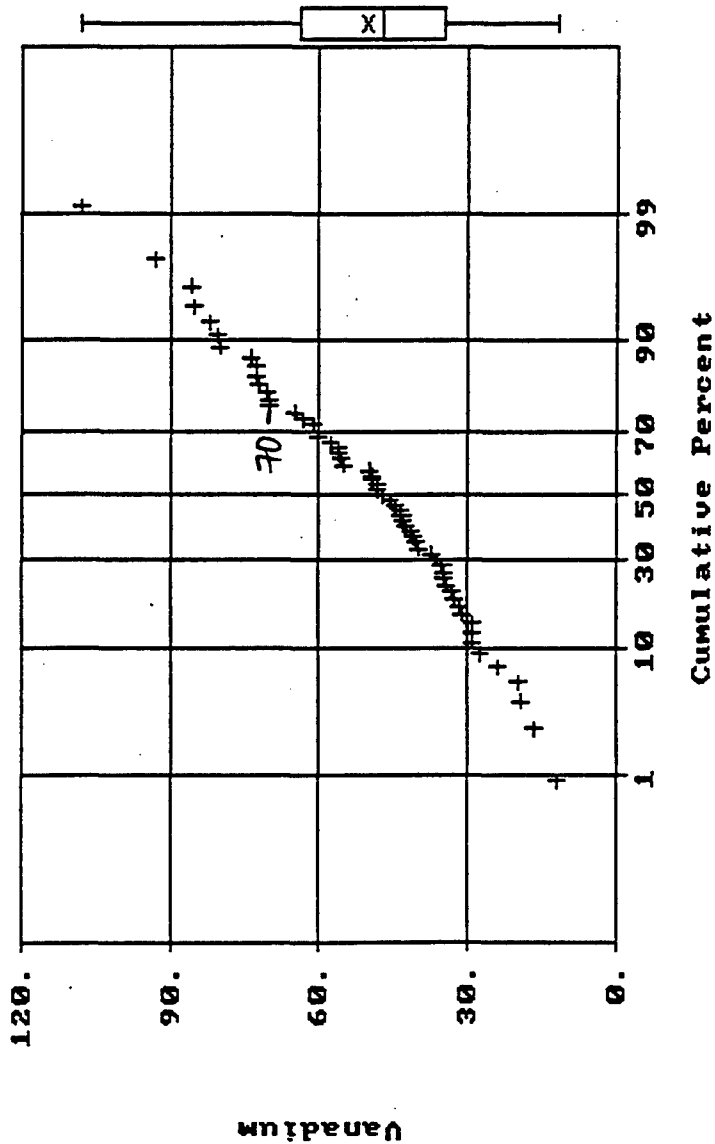
Neither

Sample size

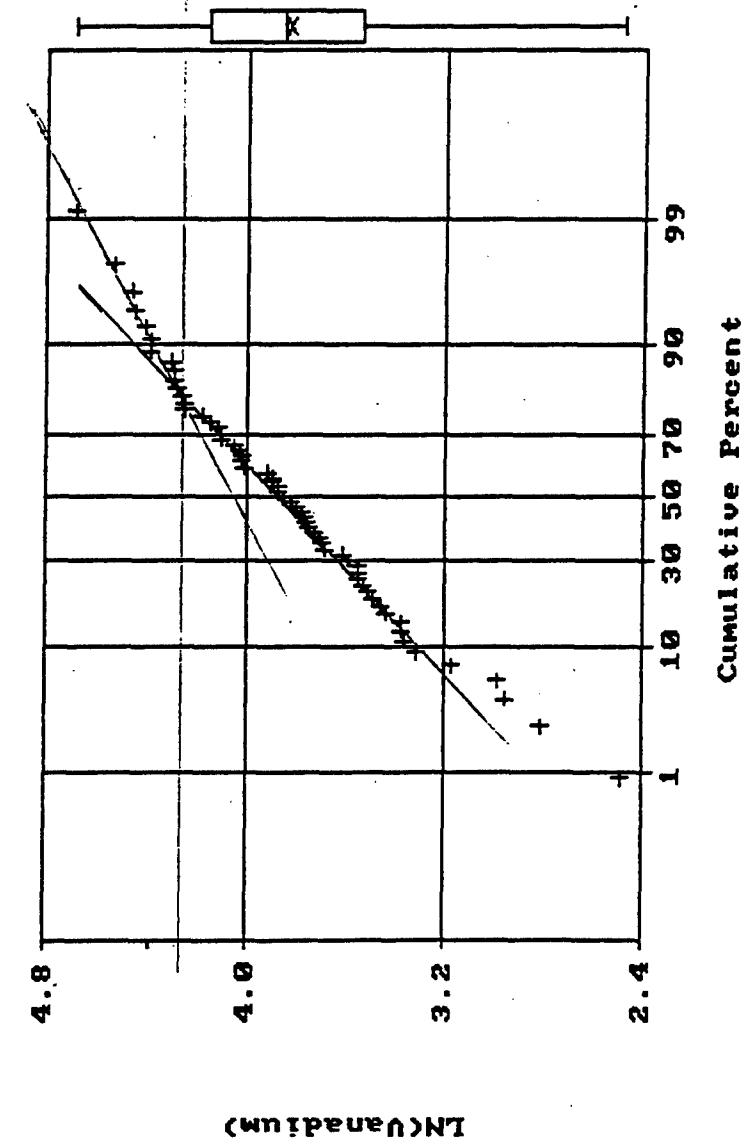
Normal Probability Plot for Vanadium
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	3
N Used :	59
Mean :	50.305
Variance:	429.403
Std. Dev:	20.722
% C.V. :	41.193
Skewness:	.500
Kurtosis:	2.765
Minimum :	12.000
25th % :	34.520
Median :	46.900
75th % :	63.704
Maximum :	107.952



Normal Probability Plot for LN(Vanadium)
Data file: col-all.dat



Statistics

N Total :	62
N Miss :	3
N Used :	59
Mean :	3.827
Variance :	.202
Std. Dev :	.449
% C.V. :	11.734
Skewness :	-.579
Kurtosis :	3.308
Minimum :	2.485
25th % :	3.542
Median :	3.848
75th % :	4.154
Maximum :	4.682

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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	15.4867	Col-Zn	Number of samples		Uncensored values		Sort data	
3	16.8	Col-Zn	Uncensored	61	Mean	39.623	Create report	
4	16.8	Col-Zn	Censored		Lognormal mean	39.459	Clear all	
5	17.4	Col-Zn	Detection limit or PQL	-----	Std. devn.	21.353	Histogram	
6	18	Col-Zn	Method detection limit	-----	Median	35.089	5	10
7	18.5	Col-Zn	TOTAL	61	Min.	15.4867	20	
8	18.7	Col-Zn	ENTER DATA		Max	139.0135		
9	20.2	Col-Zn	Distribution Decision					
10	20.5	Col-Zn	Probability plot method		W test	D'Agostino's test		
11	20.7	Col-Zn	Lognormal distribution?		Normal distribution?			
12	21.3	Col-Zn	r-squared is: 0.977		r-squared is: 0.813			
13	21.8	Col-Zn	Recommendations:					
14	22	Col-Zn	Use lognormal distribution.					
15	22.4	Col-Zn						
16	22.6	Col-Zn						
17	22.9095	Col-Zn						
18	25.2262	Col-Zn						
19	26.4	Col-Zn						
20	29.108	Col-Zn						
21	29.1139	Col-Zn	Upper Confidence Limit (UCL)					
22	31.1	Col-Zn						
23	31.4	Col-Zn						
24	32	Col-Zn						
25	32.1	Col-Zn						
26	32.173	Col-Zn						
27	32.4	Col-Zn						
28	33.1	Col-Zn						
29	33.497	Col-Zn						
30	33.5	Col-Zn						
31	33.9	Col-Zn						
32	35.089	Col-Zn						
33	36.9	Col-Zn						
34	38.0225	Col-Zn						
35	38.9	Col-Zn						
36	39.4796	Col-Zn						
37	39.7229	Col-Zn						
38	40.2	Col-Zn						
39	40.6	Col-Zn						
40	40.8271	Col-Zn						
41	41.9	Col-Zn						
42	41.9	Col-Zn						
43	43	Col-Zn						
44	43.4	Col-Zn						
45	43.7	Col-Zn						
46	44.4	Col-Zn						
47	47.1	Col-Zn						
48	47.3143	Col-Zn						
49	48.4	Col-Zn						
50	48.727	Col-Zn						
51	54.1532	Col-Zn						
52	54.9312	Col-Zn						
53	55.2	Col-Zn						
54	55.431	Col-Zn						
55	59.4	Col-Zn						
56	61.5553	Col-Zn						
57	64.7982	Col-Zn						
58	68.6321	Col-Zn						
59	75.2	Col-Zn						
60	80.3	Col-Zn						
61	97.7	Col-Zn						
62	139.0135	Col-Zn						
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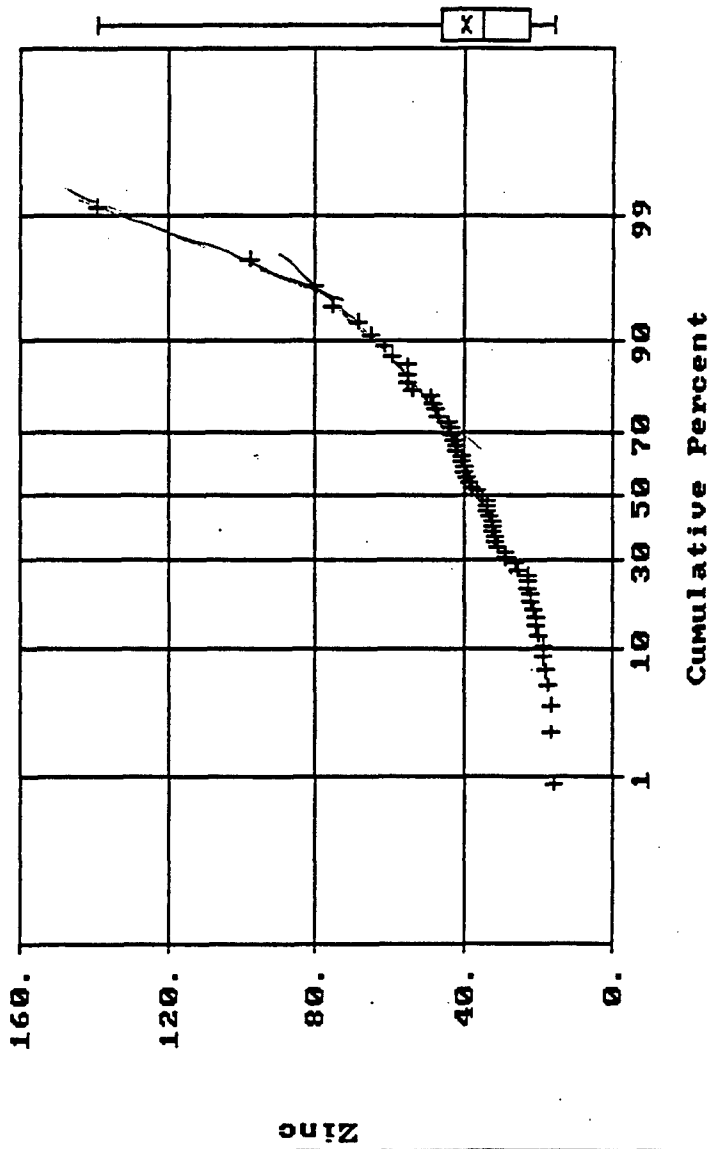
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	15.4867	Col-Zn	Number of samples		Uncensored values		Sort data	
3	16.8	Col-Zn	Uncensored	61	Mean	39.623	Create report	
4	16.8	Col-Zn	Censored		Lognormal mean	39.459	Clear all	
5	17.4	Col-Zn	Detection limit or PQL		Std. devn.	21.353	Histogram	
6	18	Col-Zn	Method detection limit		Median	35.089	5	10
7	18.5	Col-Zn	TOTAL	61	Min.	15.4867	20	
8	18.7	Col-Zn	ENTER DATA		Max	139.0135	Clear messages	
9	20.2	Col-Zn	Distribution Decision				Calculate UCL	
10	20.5	Col-Zn	Probability plot method		W test	D'Agostino's test	Lognormal	
11	20.7	Col-Zn	Lognormal distribution?		Normal distribution?		Normal	
12	21.3	Col-Zn	r-squared is: 0.977		r-squared is: 0.813		Neither	
13	21.8	Col-Zn	Recommendations:					
14	22	Col-Zn	Assume lognormal distribution.					
15	22.4	Col-Zn	Y value is -0.3359. This lies within the tabled values of -1.1211 and -2.6943					
16	22.6	Col-Zn						
17	22.9095	Col-Zn						
18	25.2262	Col-Zn	Upper Confidence Limit (UCL)					
19	26.4	Col-Zn						
20	29.108	Col-Zn						
21	29.1139	Col-Zn						
22	31.1	Col-Zn						
23	31.4	Col-Zn						
24	32	Col-Zn						
25	32.1	Col-Zn						
26	32.173	Col-Zn						
27	32.4	Col-Zn						
28	33.1	Col-Zn						
29	33.497	Col-Zn						
30	33.5	Col-Zn						
31	33.9	Col-Zn						
32	35.089	Col-Zn						
33	36.9	Col-Zn						
34	38.0225	Col-Zn						
35	38.9	Col-Zn						
36	39.4796	Col-Zn						
37	39.7229	Col-Zn						
38	40.2	Col-Zn						
39	40.6	Col-Zn						
40	40.8271	Col-Zn						
41	41.9	Col-Zn						
42	41.9	Col-Zn						
43	43	Col-Zn						
44	43.4	Col-Zn						
45	43.7	Col-Zn						
46	44.4	Col-Zn						
47	47.1	Col-Zn						
48	47.3143	Col-Zn						
49	48.4	Col-Zn						
50	48.727	Col-Zn						
51	54.1532	Col-Zn						
52	54.9312	Col-Zn						
53	55.2	Col-Zn						
54	55.431	Col-Zn						
55	59.4	Col-Zn						
56	61.5553	Col-Zn						
57	64.7982	Col-Zn						
58	68.6321	Col-Zn						
59	75.2	Col-Zn						
60	80.3	Col-Zn						
61	97.7	Col-Zn						
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Normal Probability Plot for Zinc
Data file: col-all.dat

S t a t i s t i c s

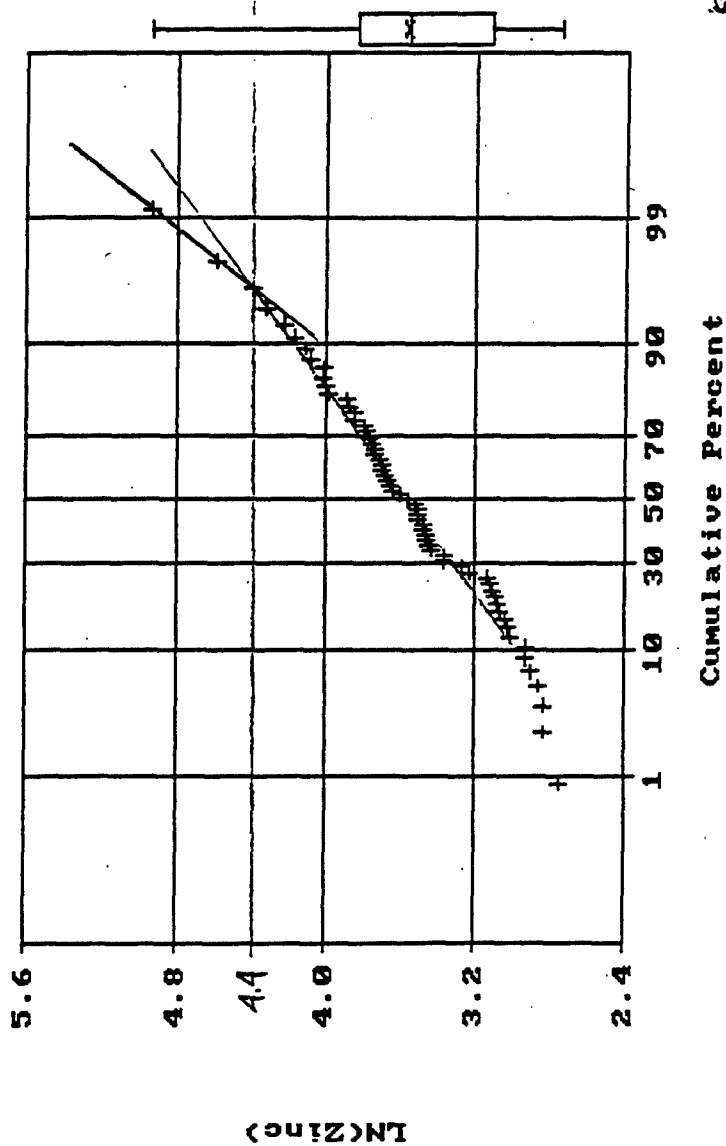
N Total :	62
N Miss :	1
N Used :	61
Mean :	39.623
Variance:	455.967
Std. Dev:	21.353
% C.V. :	53.891
Skewness:	2.112
Kurtosis:	9.606
Minimum :	15.487
25th % :	22.677
Median :	35.089
75th % :	46.425
Maximum :	139.014



Normal Probability Plot for LN(Zinc)
Data file: col-all.dat

S t a t i s t i c s

N Total :	62
N Miss :	1
N Used :	61
Mean :	3.566
Variance:	.219
Std. Dev:	.468
% C.V. :	13.128
Skewness:	.353
Kurtosis:	3.003
Minimum :	2.740
25th % :	3.121
Median :	3.558
75th % :	3.838
Maximum :	4.935



$4.38 = 80$
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Serpentinite

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A-246

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2538.4615	Ser-A1	Number of samples				Sort data	
3	3506.0449	Ser-A1	Uncensored values				Create report	
4	3560	Ser-A1	Uncensored	24	Mean	12505.500	Clear all	
5	5260	Ser-A1	Censored		Lognormal mean	12623.067	Histogram	
6	6216.5179	Ser-A1	Detection limit or PQL		Std. devn.	9235.050	5	10
7	6363.6364	Ser-A1	Method detection limit		Median	9182.0363	20	
8	6800	Ser-A1	TOTAL	24	Min.	2538.4615	Clear messages	
9	7613.7761	Ser-A1	ENTER DATA		Max	40000	Calculate UCL	
10	8100	Ser-A1	Distribution Decision				Lognormal	
11	8300	Ser-A1	Probability plot method		W test	D'Agostino's test	Normal	
12	8400	Ser-A1	Lognormal distribution?		Normal distribution?		Neither	
13	8664.0726	Ser-A1	r-squared is: 0.986		r-squared is: 0.824		Sample size	
14	9700	Ser-A1	Recommendations					
15	10000	Ser-A1	Use lognormal distribution.					
16	12000	Ser-A1						
17	12000	Ser-A1						
18	13000	Ser-A1						
19	14000	Ser-A1						
20	18000	Ser-A1						
21	20000	Ser-A1	Upper Confidence Limit (UCL)					
22	21000	Ser-A1						
23	22000	Ser-A1						
24	33109.48	Ser-A1						
25	40000	Ser-A1						
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Background data analysis

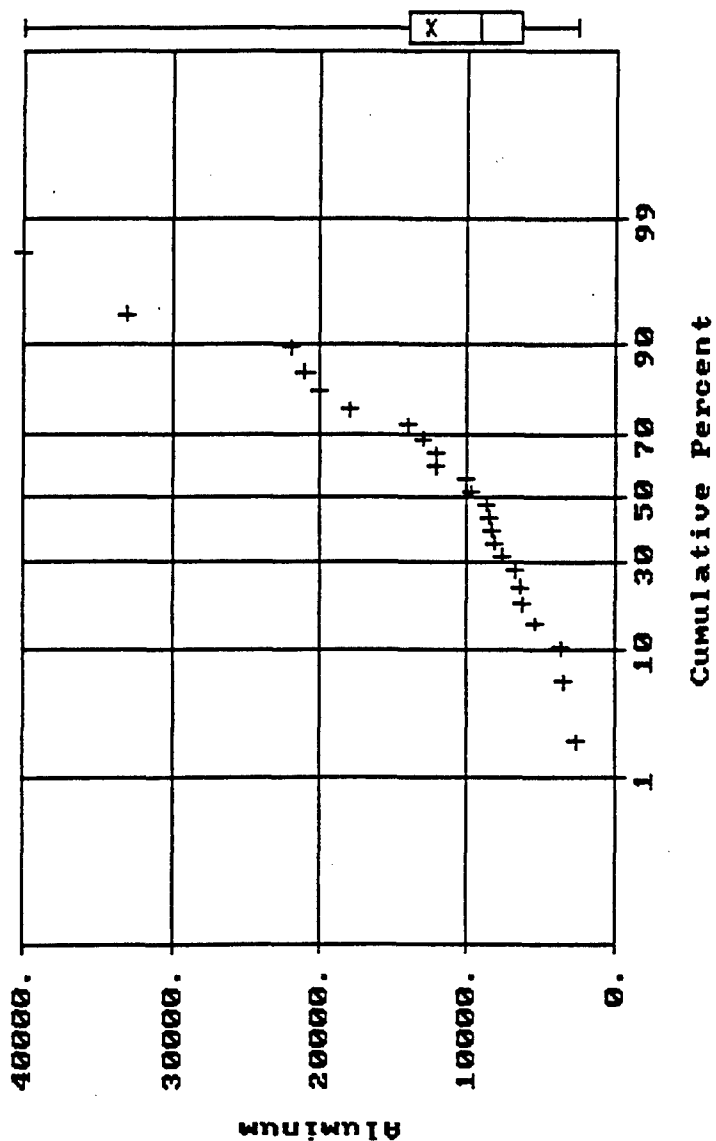
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2538.4615	Ser-AI	Number of samples		Uncensored values		Sort data	
3	3506.0449	Ser-AI	Uncensored		24	Mean	12505.500	
4	3560	Ser-AI	Censored		-----	Lognormal mean	12623.067	
5	5260	Ser-AI	Detection limit or PQL		-----	Std. devn.	9235.050	Create report
6	6216.5179	Ser-AI	Method detection limit		-----	Median	9182.0363	Clear all
7	6363.6364	Ser-AI	TOTAL		24	Min.	2538.4615	Histogram
8	6800	Ser-AI	ENTER DATA			Max.	40000	5 10 20
9	7613.7761	Ser-AI	Distribution Decision					
10	8100	Ser-AI	Probability plot method		W test	D'Agostino's test		
11	8300	Ser-AI	Lognormal distribution?		Normal distribution?			
12	8400	Ser-AI	r-squared is: 0.986		r-squared is: 0.824			
13	8664.0726	Ser-AI	Recommendations					
14	9700	Ser-AI	Assume lognormal distribution.					
15	10000	Ser-AI	W value is 0.983. This exceeds the tabled value of 0.916					
16	12000	Ser-AI						
17	12000	Ser-AI						
18	13000	Ser-AI						
19	14000	Ser-AI						
20	18000	Ser-AI						
21	20000	Ser-AI						
22	21000	Ser-AI						
23	22000	Ser-AI						
24	33109.48	Ser-AI						
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Calculate UCL
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 Sample size

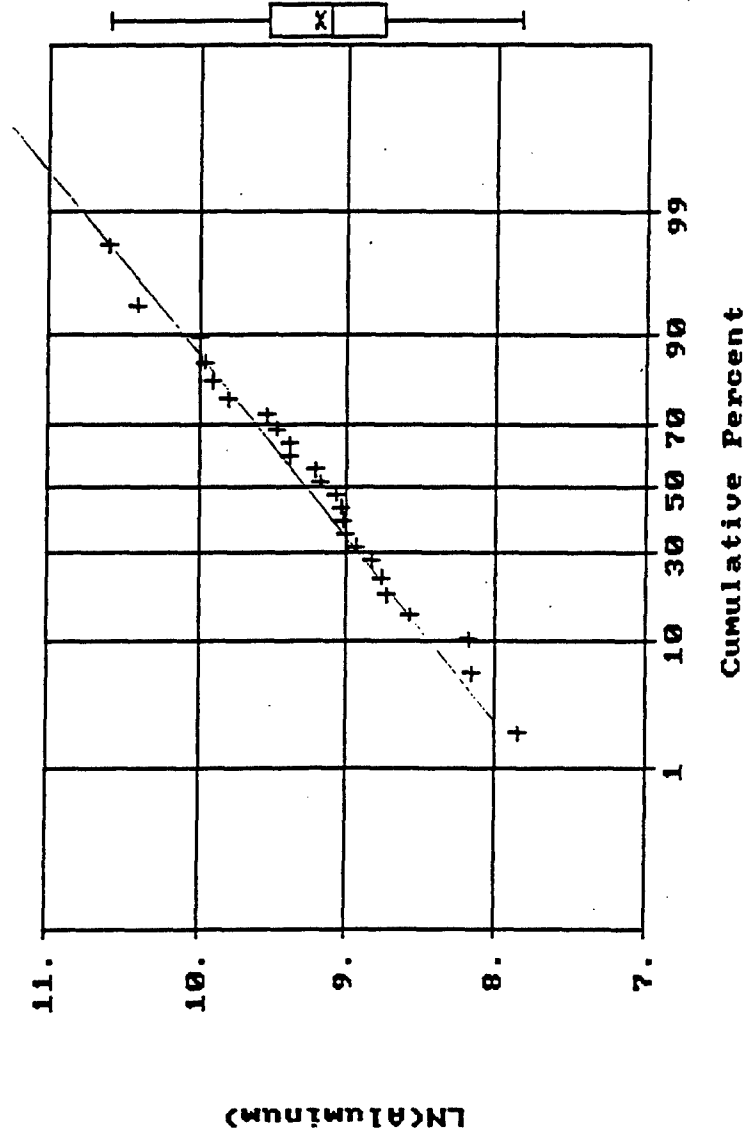
Normal Probability Plot for Aluminum
Data file: ser-all.dat

Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	12505.500
Variance:	85286140.000
Std. Dev:	9235.050
% C.V. :	73.848
Skewness:	1.560
Kurtosis:	4.993
Minimum :	2538.461
25th % :	6363.636
Median :	9182.036
75th % :	14000.000
Maximum :	40000.000



Normal Probability Plot for LN(Aluminum)
Data file: ser-all.dat



Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	9.208
Variance:	.471
Std. Dev:	.687
% C.V. :	7.457
Skewness:	.079
Kurtosis:	2.651
Minimum :	7.839
25th % :	8.758
Median :	9.123
75th % :	9.547
Maximum :	10.597

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-As	Number of samples		Uncensored values		Sort data	
3	0.3205	Ser-As	Uncensored	24	Mean	2.782	Create report	
4	0.5078	Ser-As	Censored		Lognormal mean	3.151	Clear all	
5	1.25	Ser-As	Detection limit or PQL	-----	Std. devn.	2.287	Histogram	
6	1.25	Ser-As	Method detection limit	-----	Median	2.32015	5 10 20	
7	1.27	Ser-As	TOTAL	24	Min.	0.125	Clear messages	
8	1.29	Ser-As	ENTER DATA		Max	11.3	Calculate UCL	
9	1.36	Ser-As	Distribution Decision				Lognormal	
10	1.4	Ser-As	Probability plot method		W test	D'Agostino's test	Normal	
11	1.53	Ser-As	Lognormal distribution?		Normal distribution?		Neither	
12	2.07	Ser-As	r-squared is: 0.888		r-squared is: 0.766		Sample size	
13	2.15	Ser-As	Recommendations					
14	2.4903	Ser-As	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	3.0165	Ser-As	Upper Confidence Limit (UCL)					
16	3.41	Ser-As						
17	3.46	Ser-As						
18	3.69	Ser-As						
19	3.7054	Ser-As						
20	3.88	Ser-As						
21	3.91	Ser-As						
22	4.09	Ser-As						
23	4.6	Ser-As						
24	4.69	Ser-As						
25	11.3	Ser-As						
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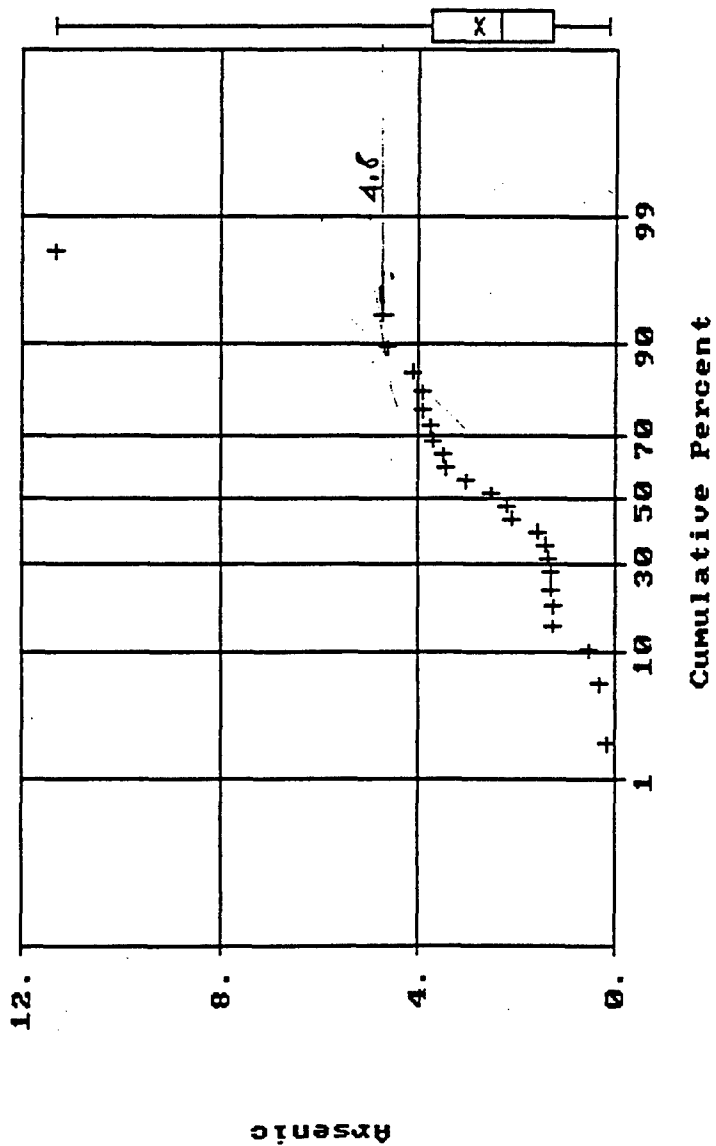
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-As	Number of samples		Uncensored values		Sort data	
3	0.3205	Ser-As	Uncensored	24	Mean	2.782	Create report	
4	0.5078	Ser-As	Censored	-----	Lognormal mean	3.151	Clear all	
5	1.25	Ser-As	Detection limit or PQL	-----	Std. devn.	2.287	Histogram	
6	1.25	Ser-As	Method detection limit		Median	2.32015	5	10
7	1.27	Ser-As	TOTAL	24	Min.	0.125	20	
8	1.29	Ser-As	ENTER DATA		Max.	11.3	Clear messages	
9	1.36	Ser-As	Distribution Decision				Calculate UCL	
10	1.4	Ser-As	Probability plot method		W test	D'Agostino's test	Lognormal	
11	1.53	Ser-As	Lognormal distribution?		Normal distribution?		Normal	
12	2.07	Ser-As	r-squared is: 0.889		r-squared is: 0.755		Neither	
13	2.15	Ser-As	Recommendations					
14	2.4903	Ser-As	Reject lognormal distribution.					
15	3.0165	Ser-As	W value is 0.9027. This is less than the tabled value of 0.916					
16	3.41	Ser-As	Reject normal distribution.					
17	3.46	Ser-As	W value is 0.7872. This is less than the tabled value of 0.916					
18	3.69	Ser-As	Upper Confidence Limit (UCL)					
19	3.7054	Ser-As						
20	3.88	Ser-As						
21	3.91	Ser-As						
22	4.09	Ser-As						
23	4.6	Ser-As						
24	4.69	Ser-As						
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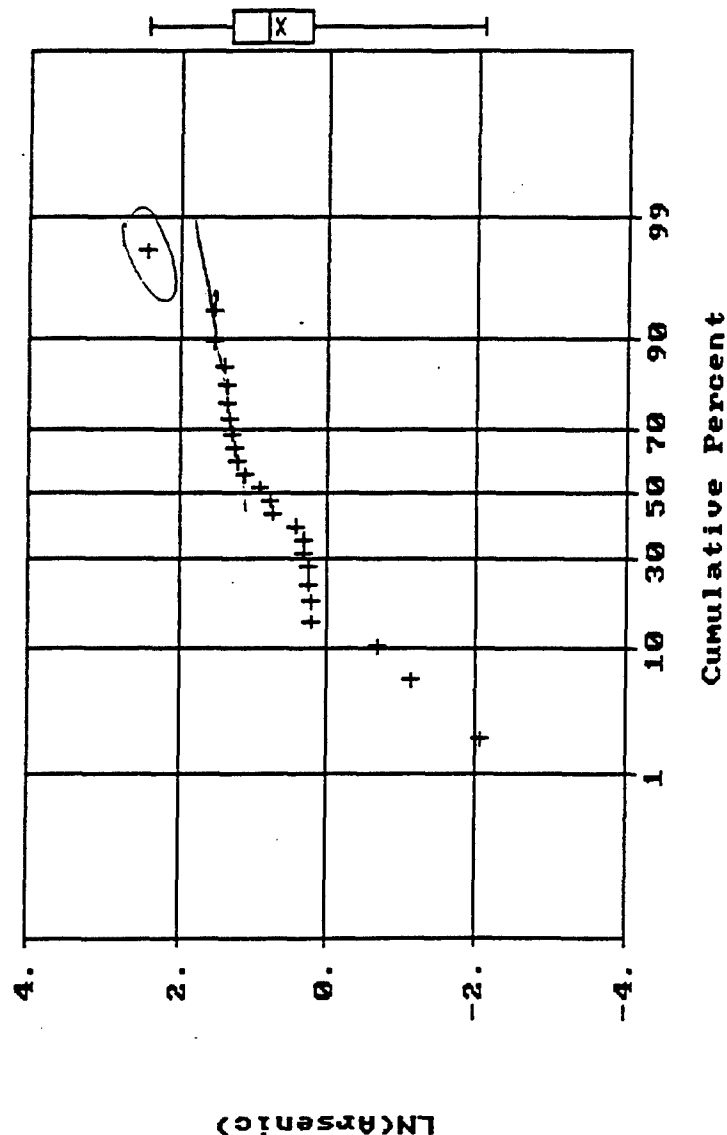
Normal Probability Plot for Arsenic
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	2.782
Variance:	5.229
Std. Dev:	2.287
% C.V. :	82.199
Skewness:	2.120
Kurtosis:	9.030
Minimum :	.125
25th % :	1.270
Median :	2.320
75th % :	3.705
Maximum :	11.300



Normal Probability Plot for LN(Arsenic)
Data file: ser-all.dat



Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	.680
Variance:	.934
Std. Dev:	.967
% C.V. :	142.038
Skewness:	-1.058
Kurtosis:	4.373
Minimum :	-2.079
25th % :	.239
Median :	.839
75th % :	1.310
Maximum :	2.425

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.645	Ser-Ba	Number of samples		Uncensored values		Sort data	
3	5.65	Ser-Ba	Uncensored	24	Mean	78.957	Create report	
4	10	Ser-Ba	Censored		Lognormal mean	106.677	Clear all	
5	14.3	Ser-Ba	Detection limit or PQL	-----	Std. devn.	52.898	Histogram	
6	16.4822	Ser-Ba	Method detection limit	-----	Median	86.3	5	10
7	17.1488	Ser-Ba	TOTAL	24	Min.	1.645	20	
8	18.7179	Ser-Ba	ENTER DATA		Max	203		
9	62.5216	Ser-Ba	Distribution Decision					
10	66.3	Ser-Ba	Probability plot method		W test	D'Agostino's test		
11	75.9	Ser-Ba	Lognormal distribution?		Normal distribution?			
12	78.3482	Ser-Ba	r-squared is: 0.819		r-squared is: 0.941			
13	84.8	Ser-Ba	Recommendations					
14	87.8	Ser-Ba	Use normal distribution.					
15	91.7	Ser-Ba						
16	92.3476	Ser-Ba						
17	106	Ser-Ba						
18	107	Ser-Ba						
19	110	Ser-Ba						
20	111	Ser-Ba						
21	116	Ser-Ba						
22	116	Ser-Ba	Upper Confidence Limit (UCL)					
23	149.304	Ser-Ba						
24	153	Ser-Ba						
25	203	Ser-Ba						
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Calculate UCL

Lognormal

Normal

Neither

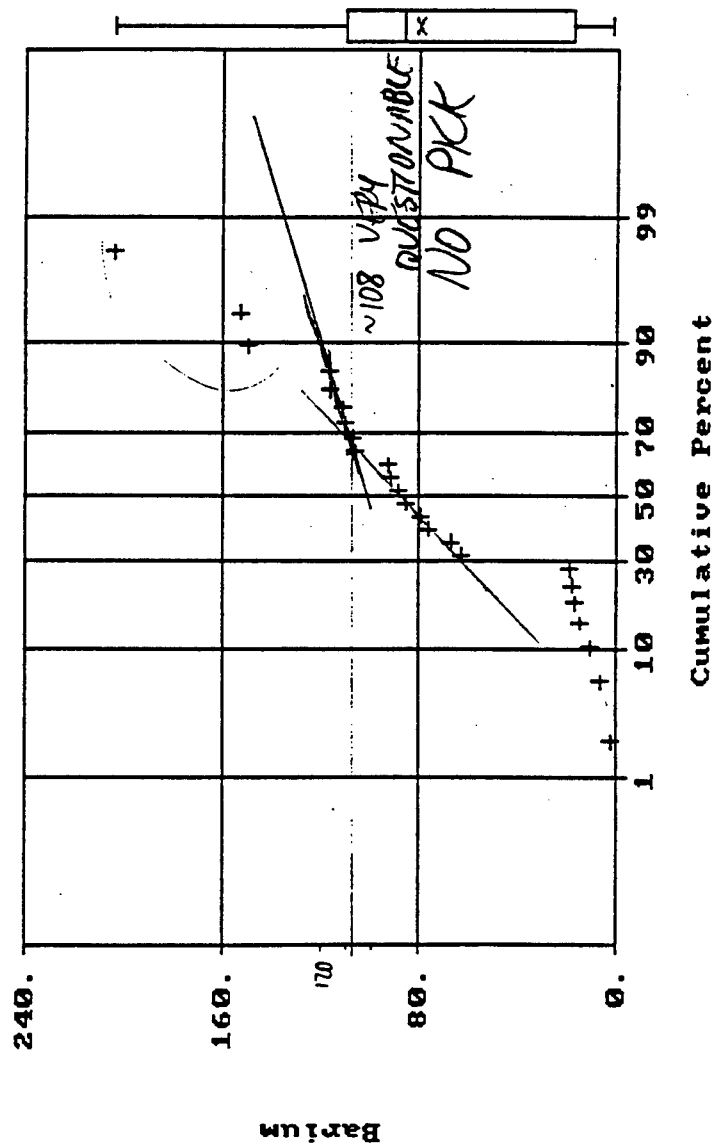
Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.645	Ser-Ba	Number of samples		Uncensored values		Sort data	
3	5.65	Ser-Ba	Uncensored	24	Mean	78.957	Create report	
4	10	Ser-Ba	Censored		Lognormal mean	106.677	Clear all	
5	14.3	Ser-Ba	Detection limit or PQL	-----	Std. devn.	52.998	Histogram	
6	16.4822	Ser-Ba	Method detection limit	-----	Median	86.3	5	10
7	17.1488	Ser-Ba	TOTAL	24	Min.	1.645	20	
8	18.7179	Ser-Ba	ENTER DATA		Max	203		
9	62.5216	Ser-Ba	Distribution Decision					
10	66.3	Ser-Ba	Probability plot method		W test	D'Agostino's test		
11	75.9	Ser-Ba	Lognormal distribution?		Normal distribution?			
12	78.3482	Ser-Ba	r-squared is: 0.819		r-squared is: 0.941			
13	84.8	Ser-Ba	Recommendations:					
14	87.8	Ser-Ba	Reject lognormal distribution.					
15	91.7	Ser-Ba	W value is 0.8224. This is less than the tabled value of 0.916					
16	92.3476	Ser-Ba	Assume normal distribution.					
17	106	Ser-Ba	W value is 0.9357. This exceeds the tabled value of 0.916					
18	107	Ser-Ba	Upper Confidence Limit (UCL)					
19	110	Ser-Ba						
20	111	Ser-Ba						
21	116	Ser-Ba						
22	116	Ser-Ba						
23	149.304	Ser-Ba						
24	153	Ser-Ba						
25	203	Ser-Ba						
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Clear messages
 Calculate UCL
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 Sample size

Normal Probability Plot for Barium
Data file: ser-all.dat



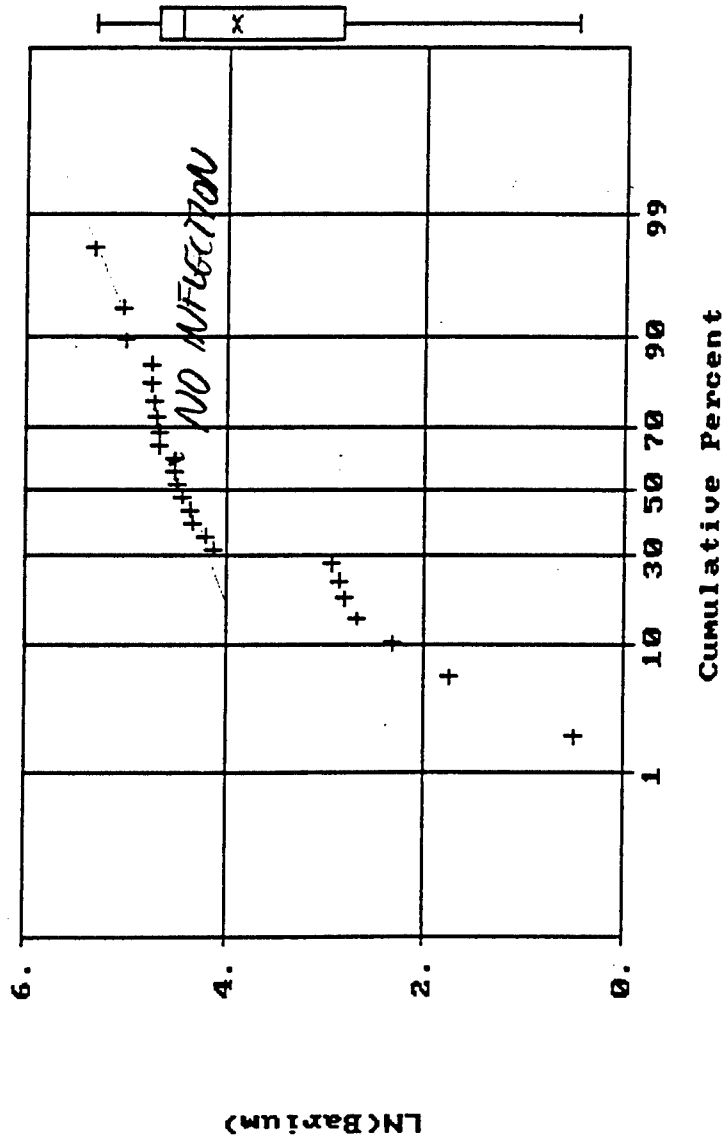
Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	78.957
Variance :	2808.830
Std. Dev :	52.998
% C.V. :	67.123
Skewness :	.213
Kurtosis :	2.565
Minimum :	1.645
25th % :	17.149
Median :	86.300
75th % :	110.000
Maximum :	203.000

Normal Probability Plot for LN(Barium)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	3.931
Variance:	1.477
Std. Dev:	1.215
% C.V. :	30.917
Skewness:	-1.294
Kurtosis:	3.850
Minimum :	.498
25th % :	2.842
Median :	4.458
75th % :	4.700
Maximum :	5.313



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Ser-Be	Number of samples		Uncensored values		Sort data	
3	0.1539	Ser-Be	Uncensored	24	Mean	1.008	Create report	
4	0.1607	Ser-Be	Censored		Lognormal mean	1.042	Clear all	
5	0.2135	Ser-Be	Detection limit or PQL	-----	Std. devn.	1.296	Histogram	
6	0.25	Ser-Be	Method detection limit	-----	Median	0.779	5 10 20	
7	0.25	Ser-Be	TOTAL	24	Min.	0.05	Clear messages	
8	0.25	Ser-Be	ENTER DATA		Max	5	Calculate UCL	
9	0.25	Ser-Be	Distribution Decision				Lognormal	
10	0.25	Ser-Be	Probability plot method		W test	D'Agostino's test	Normal	
11	0.5	Ser-Be	Lognormal distribution?		Normal distribution?		Neither	
12	0.675	Ser-Be	r-squared is: 0.942		r-squared is: 0.595		Sample size	
13	0.774	Ser-Be	Recommendations					
14	0.784	Ser-Be	Use lognormal distribution.					
15	0.826	Ser-Be						
16	0.877	Ser-Be						
17	0.899	Ser-Be						
18	0.959	Ser-Be						
19	1.07	Ser-Be						
20	1.08	Ser-Be						
21	1.17	Ser-Be						
22	1.25	Ser-Be	Upper Confidence Limit (UCL)					
23	1.51	Ser-Be						
24	5	Ser-Be						
25	5	Ser-Be						
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Background data analysis

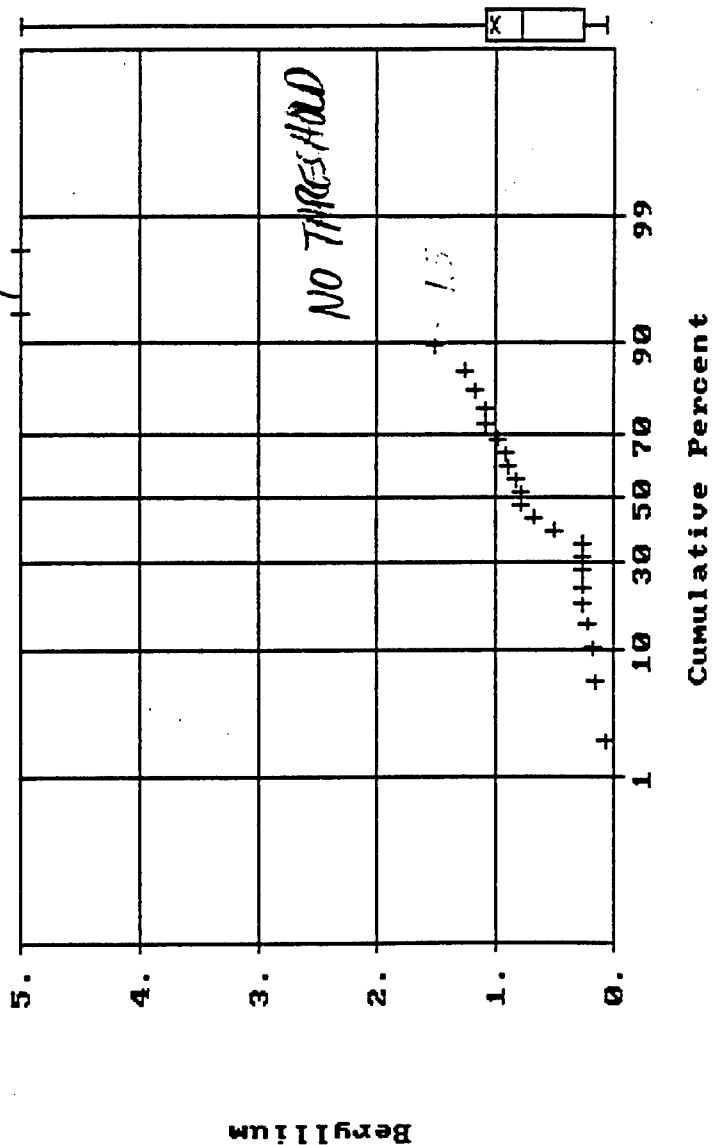
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Ser-Be	Number of samples		Uncensored values		Sort data	
3	0.1539	Ser-Be	Uncensored	24	Mean	1.008	Create report	
4	0.1607	Ser-Be	Censored	-----	Lognormal mean	1.042	Clear all	
5	0.2135	Ser-Be	Detection limit or PQL	-----	Std. devn.	1.286	Histogram	
6	0.25	Ser-Be	Method detection limit	-----	Median	0.779	5 10 20	
7	0.25	Ser-Be	TOTAL	24	Min.	0.05		
8	0.25	Ser-Be	ENTER DATA		Max.	5		
9	0.25	Ser-Be	Distribution Decision					
10	0.25	Ser-Be	Probability plot method		W test	D'Agostino's test		
11	0.5	Ser-Be	Lognormal distribution?		Normal distribution?			
12	0.675	Ser-Be	r-squared is: 0.942		r-squared is: 0.595			
13	0.774	Ser-Be	Recommendations:					
14	0.784	Ser-Be	Assume lognormal distribution.					
15	0.826	Ser-Be	W value is 0.9456. This exceeds the tabled value of 0.916					
16	0.877	Ser-Be						
17	0.899	Ser-Be						
18	0.959	Ser-Be						
19	1.07	Ser-Be						
20	1.08	Ser-Be						
21	1.17	Ser-Be						
22	1.25	Ser-Be	Upper Confidence Limit (UCL)					
23	1.51	Ser-Be						
24	5	Ser-Be						
25	5	Ser-Be						
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Calculate UCL
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 Sample size

Normal Probability Plot for Beryllium
Data file: ser-all.dat

S t a t i s t i c s

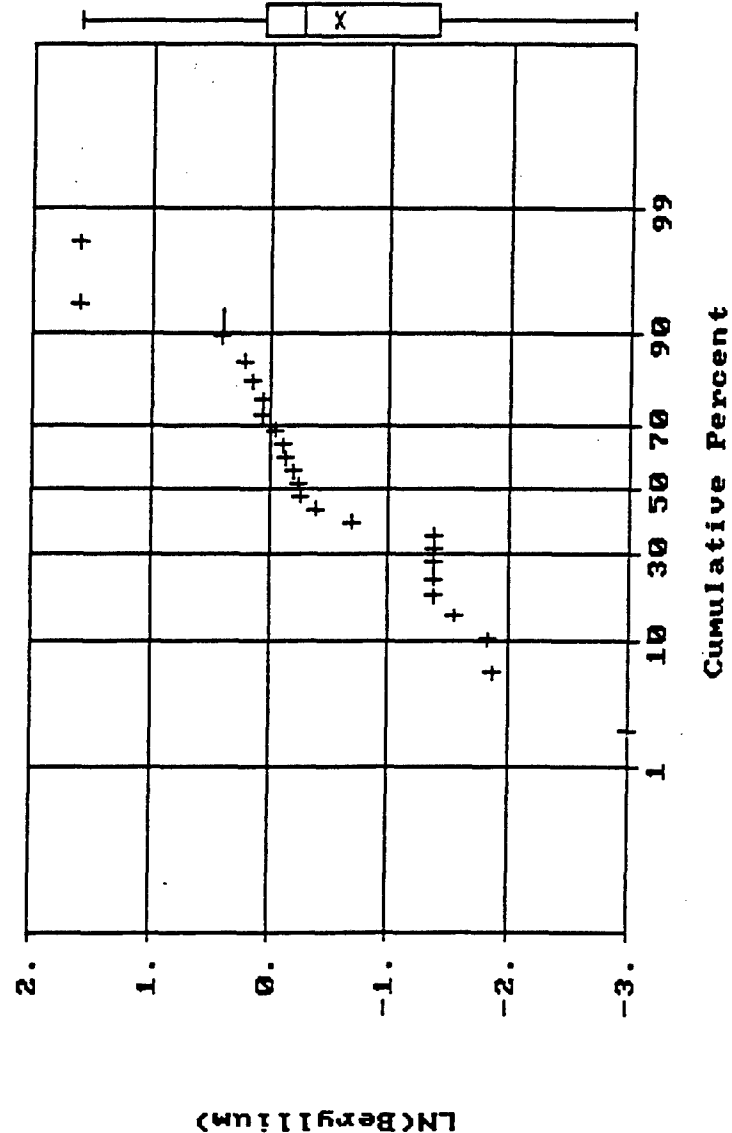
N Total :	46
N Miss :	22
N Used :	24
Mean :	1.008
Variance:	1.679
Std. Dev:	1.296
% C.V. :	128.509
Skewness:	2.497
Kurtosis:	8.233
Minimum :	.050
25th % :	.250
Median :	.779
75th % :	1.070
Maximum :	5.000



Normal Probability Plot for LN(Beryllium)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	-.545
Variance :	1.172
Std. Dev. :	1.083
% C.V. :	198.762
Skewness :	-.023
Kurtosis :	2.985
Minimum :	-2.996
25th % :	-1.386
Median :	-.250
75th % :	.068
Maximum :	1.609



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.25	Ser-Cd	Number of samples		Uncensored values		Sort data	
3	0.2575	Ser-Cd	Uncensored	24	Mean	4.622	Create report	
4	0.2575	Ser-Cd	Censored		Lognormal mean	3.501	Clear all	
5	0.2575	Ser-Cd	Detection limit or PQL		Std. devn.	10.979	Histogram	
6	0.2575	Ser-Cd	Method detection limit		Median	0.863	5	10
7	0.2575	Ser-Cd	TOTAL	24	Min.	0.25	20	
8	0.4	Ser-Cd	ENTER DATA		Max	40		
9	0.4	Ser-Cd	Distribution Decision					
10	0.4	Ser-Cd	Probability plot method		W test	D'Agostino's test		
11	0.6	Ser-Cd	Lognormal distribution?		Normal distribution?			
12	0.6	Ser-Cd	r-squared is: 0.880		r-squared is: 0.400			
13	0.857	Ser-Cd	Recommendations					
14	0.869	Ser-Cd	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	1.13	Ser-Cd						
16	1.85	Ser-Cd						
17	2.2	Ser-Cd						
18	2.33	Ser-Cd						
19	2.38	Ser-Cd						
20	3.13	Ser-Cd						
21	3.3	Ser-Cd						
22	4	Ser-Cd	Upper Confidence Limit (UCL)					
23	4.95	Ser-Cd						
24	40	Ser-Cd						
25	40	Ser-Cd						
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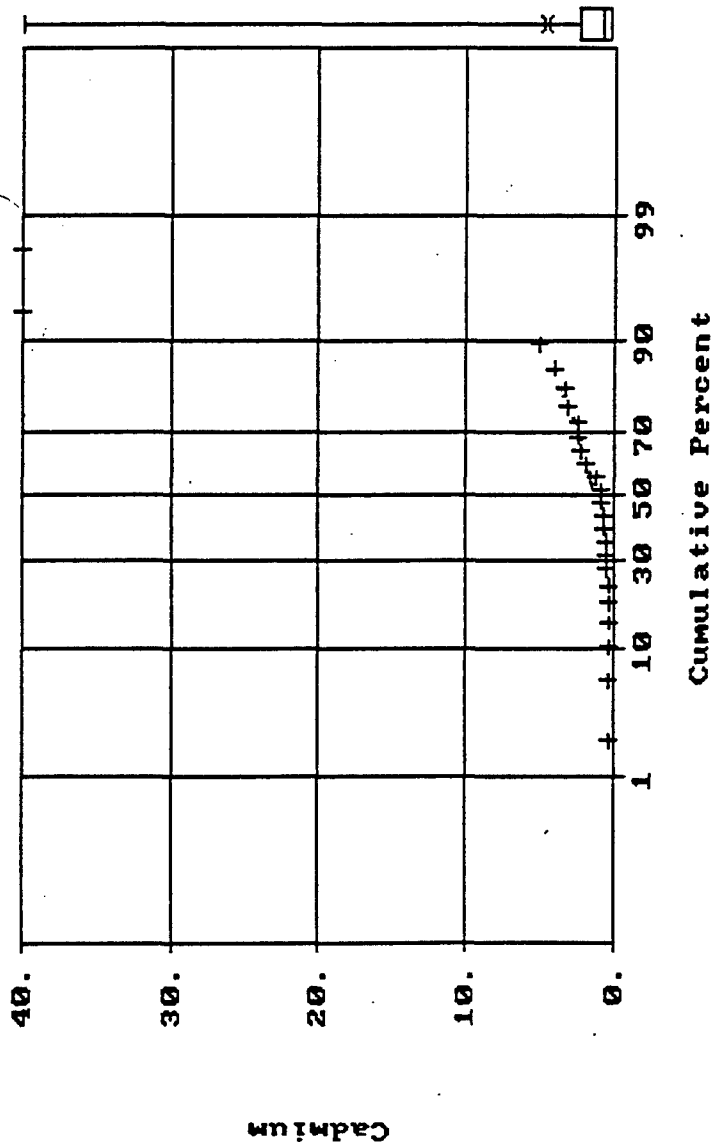
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.25	Ser-Cd	Number of samples		Uncensored values		Sort data	
3	0.2575	Ser-Cd	Uncensored	24	Mean	4.622	Create report	
4	0.2575	Ser-Cd	Censored		Lognormal mean	3.501	Clear all	
5	0.2575	Ser-Cd	Detection limit or PQL		Std. devn.	10.979	Histogram	
6	0.2575	Ser-Cd	Method detection limit		Median	0.863	5	10
7	0.2575	Ser-Cd	TOTAL	24	Min.	0.25	20	
8	0.4	Ser-Cd	ENTER DATA		Max	40		
9	0.4	Ser-Cd	Distribution Decision					
10	0.4	Ser-Cd	Probability plot method		W test	D'Agostino's test		
11	0.6	Ser-Cd	Lognormal distribution?		Normal distribution?			
12	0.6	Ser-Cd	r-squared is: 0.880		r-squared is: 0.400			
13	0.857	Ser-Cd	Recommendations:					
14	0.869	Ser-Cd	Reject lognormal distribution.					
15	1.13	Ser-Cd	W value is 0.8708. This is less than the tabled value of 0.916					
16	1.85	Ser-Cd	Reject normal distribution.					
17	2.2	Ser-Cd	W value is 0.4126. This is less than the tabled value of 0.916					
18	2.33	Ser-Cd	Upper Confidence Limit (UCL)					
19	2.38	Ser-Cd						
20	3.13	Ser-Cd						
21	3.3	Ser-Cd						
22	4	Ser-Cd						
23	4.95	Ser-Cd						
24	40	Ser-Cd						
25	40	Ser-Cd						
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Normal Probability Plot for Cadmium
Data file: ser-all.dat

S t a t i s t i c s

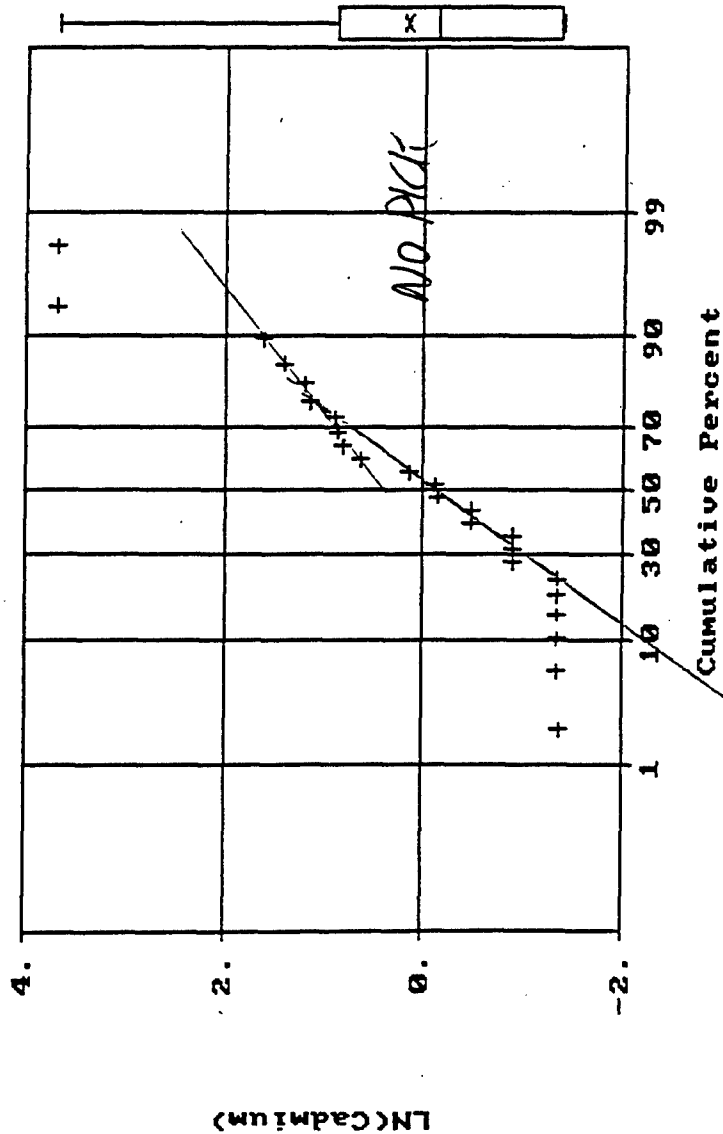
N Total :	46
N Miss :	22
N Used :	24
Mean :	4.622
Variance:	120.528
Std. Dev:	10.979
% C.V. :	237.516
Skewness:	2.936
Kurtosis:	9.798
Minimum :	.250
25th % :	.257
Median :	.863
75th % :	2.380
Maximum :	40.000



Normal Probability Plot for LN(Cadmium)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	.154
Variance:	2.198
Std. Dev:	1.482
% C.V. :	961.049
Skewness:	.969
Kurtosis:	3.360
Minimum :	-1.386
25th % :	-1.357
Median :	-.147
75th % :	.867
Maximum :	3.689



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Ser-CN	Uncensored	8	Mean	0.239	Create report	
4	0.125	Ser-CN	Censored		Lognormal mean	0.244	Clear all	
5	0.125	Ser-CN	Detection limit or PQL	-----	Std. devn.	0.158	Histogram	
6	0.125	Ser-CN	Method detection limit	-----	Median	0.125	5	10
7	0.4145	Ser-CN	TOTAL	8	Min.	0.125	20	
8	0.4145	Ser-CN	ENTER DATA		Max	0.49		
9	0.46	Ser-CN	Distribution Decision					
10			Probability plot method		W test	D'Agostino's test		
11			Lognormal distribution?		Normal distribution?			
12			r-squared is: 0.690		r-squared is: 0.702			
13			Recommendations:					
14			Reject lognormal distribution.					
15			W value is 0.6528. This is less than the tabled value of 0.818					
16			Reject normal distribution.					
17			W value is 0.6778. This is less than the tabled value of 0.818					
18			Upper Confidence Limit (UCL)					
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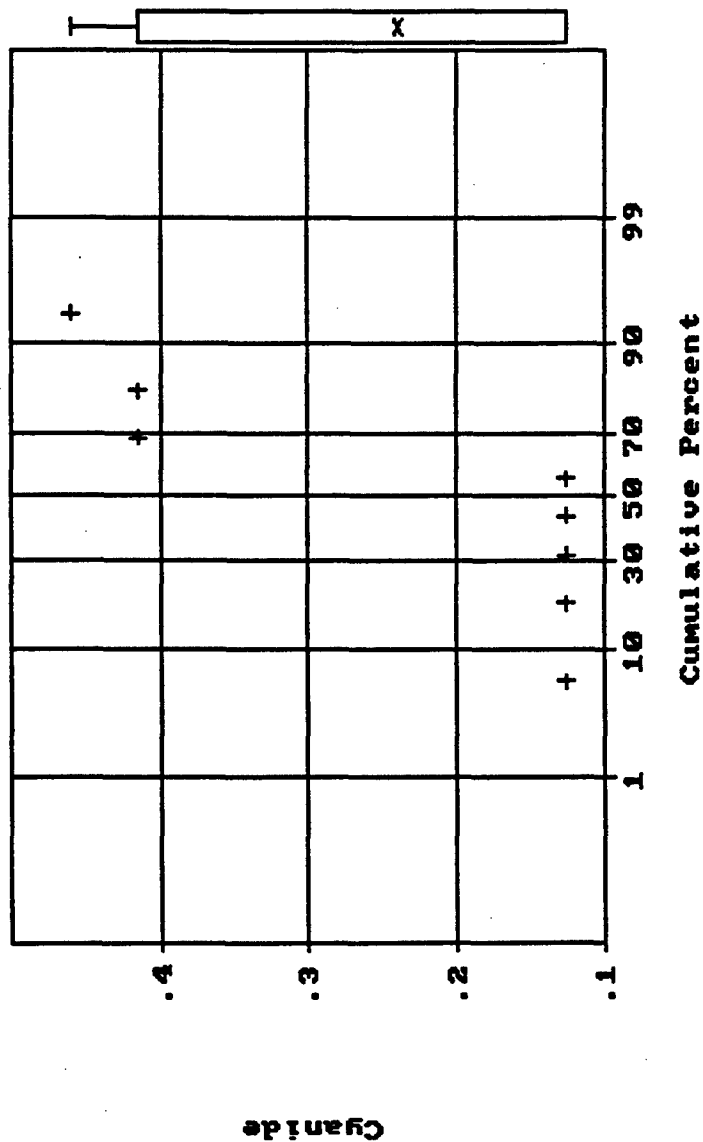
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Ser-CN	Uncensored	8	Mean	0.239	Create report	
4	0.125	Ser-CN	Censored		Lognormal mean	0.244	Clear all	
5	0.125	Ser-CN	Detection limit or PQL	-----	Std. devn.	0.159	Histogram	
6	0.125	Ser-CN	Method detection limit	-----	Median	0.125	5 10 20	
7	0.4145	Ser-CN	TOTAL	8	Min.	0.125		
8	0.4145	Ser-CN	ENTER DATA		Max	0.46	Clear messages	
9	0.46	Ser-CN	Distribution Decision				Calculate UCL	
10			Probability plot method		W test	D'Agostino's test	Lognormal	
11			Lognormal distribution?		Normal distribution?		Normal	
12			r-squared is: 0.690		r-squared is: 0.702		Neither	
13			Recommendations:				Sample size	
14			Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
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Normal Probability Plot for Cyanide
Data file: ser-all.dat

S t a t i s t i c s

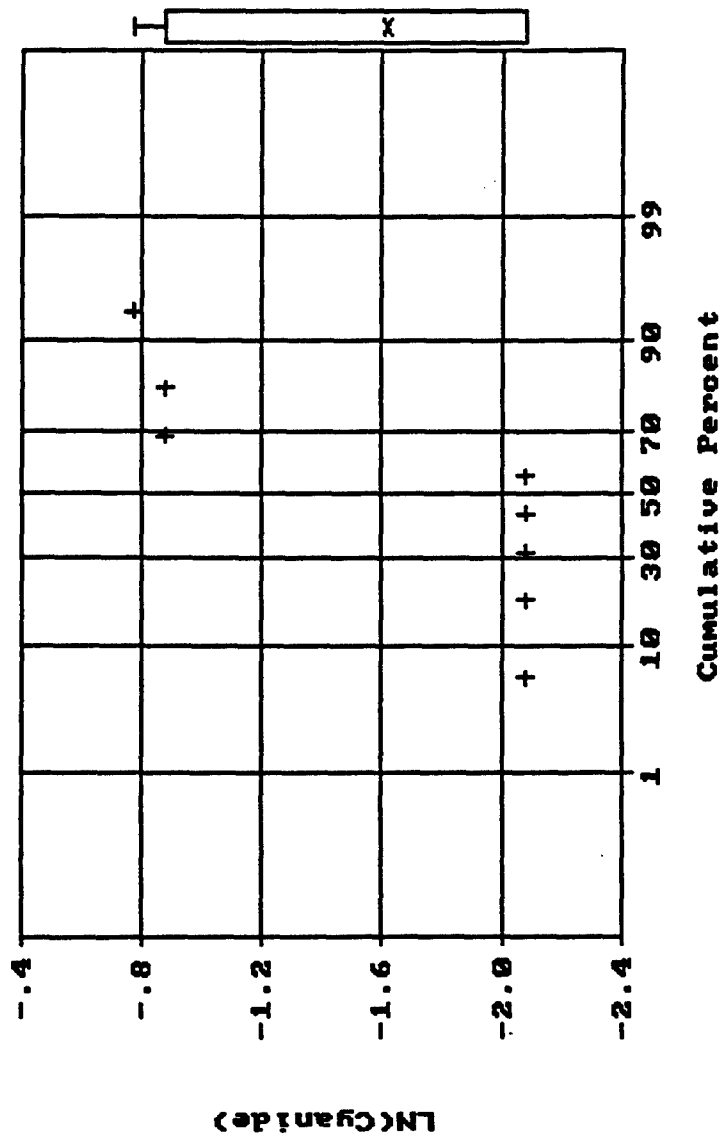
N Total :	46
N Miss :	38
N Used :	8
Mean :	.239
Variance:	.025
Std. Dev:	.158
% C.V. :	66.167
Skewness:	.541
Kurtosis:	1.329
Minimum :	.125
25th % :	.125
Median :	.125
75th % :	.414
Maximum :	.460



Normal Probability Plot for LN(Cyanide)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	38
N Used :	8
Mean :	-1.617
Variance:	.409
Std. Dev:	.639
% C.V. :	39.532
Skewness:	.524
Kurtosis:	1.286
Minimum :	-2.079
25th % :	-2.079
Median :	-2.079
75th % :	-.881
Maximum :	-.777



Background data analysis

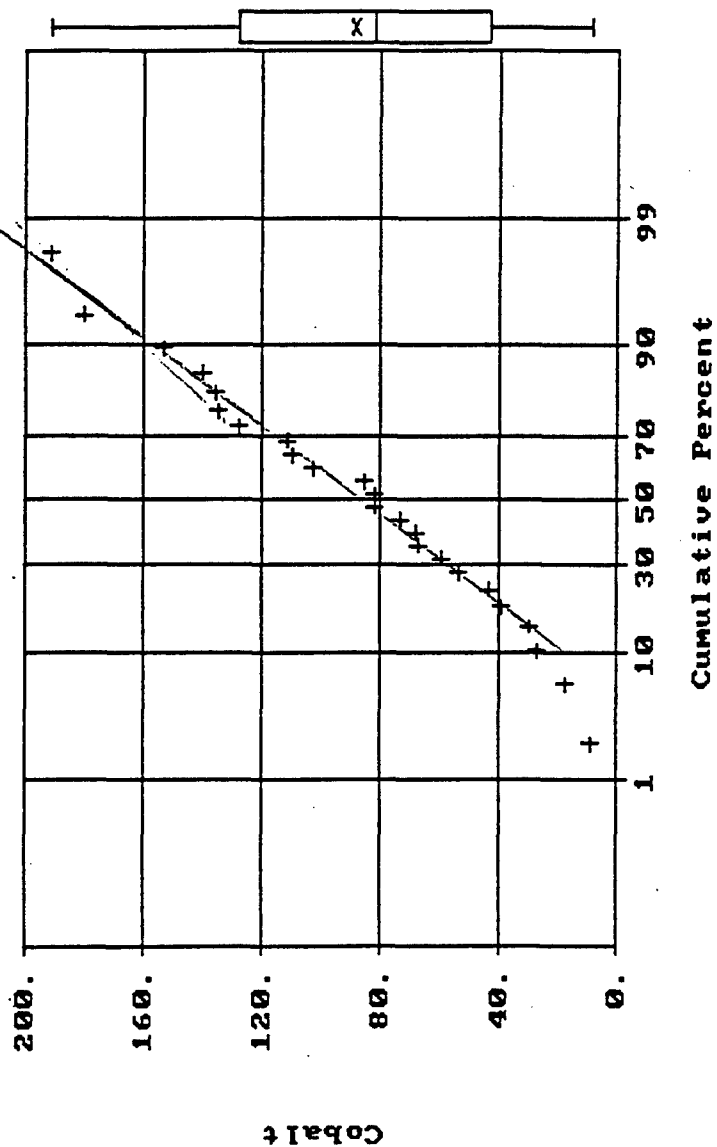
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	8.9	Ser-Co					Sort data	
3	17.4107	Ser-Co					Create report	
4	26.5	Ser-Co					Clear all	
5	29.4	Ser-Co					Histogram	
6	38.7	Ser-Co					5 10 20	
7	42.7686	Ser-Co					Clear messages	
8	53.1	Ser-Co					Calculate UCL	
9	59.8	Ser-Co					Lognormal	
10	67.5	Ser-Co					Normal	
11	68.2	Ser-Co					Neither	
12	73.0627	Ser-Co					Sample size	
13	81.7	Ser-Co						
14	82.376	Ser-Co						
15	85.3	Ser-Co						
16	103	Ser-Co						
17	110	Ser-Co						
18	111.2821	Ser-Co						
19	128	Ser-Co						
20	134.8898	Ser-Co						
21	136	Ser-Co						
22	140.2418	Ser-Co						
23	153	Ser-Co						
24	180	Ser-Co						
25	191	Ser-Co						
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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	8.9	Ser-Co	Number of samples		Uncensored values		Sort data	
3	17.4107	Ser-Co	Uncensored	24	Mean	88.422	Creates report	
4	26.5	Ser-Co	Censored		Lognormal mean	95.124	Clear all	
5	29.4	Ser-Co	Detection limit or PQL	-----	Std. devn.	50.835	Histogram	
6	38.7	Ser-Co	Method detection limit	-----	Median	82.038	5	10
7	42.7686	Ser-Co	TOTAL	24	Min.	8.9	20	
8	53.1	Ser-Co	ENTER DATA		Max	191		
9	59.8	Ser-Co	Distribution Decision					
10	67.5	Ser-Co	Probability plot method		W test	D'Agostino's test		
11	68.2	Ser-Co	Lognormal distribution?		Normal distribution?			
12	73.0627	Ser-Co	r-squared is: 0.921		r-squared is: 0.978			
13	81.7	Ser-Co	Recommendations:					
14	82.376	Ser-Co	Assume lognormal distribution.					
15	85.3	Ser-Co	W value is 0.9206. This exceeds the tabled value of 0.916					
16	103	Ser-Co						
17	110	Ser-Co						
18	111.2821	Ser-Co						
19	128	Ser-Co						
20	134.8898	Ser-Co						
21	136	Ser-Co						
22	140.2418	Ser-Co	Upper Confidence Limit (UCL)					
23	153	Ser-Co						
24	180	Ser-Co						
25	191	Ser-Co						
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Calculate UCL
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Normal Probability Plot for Cobalt
Data file: ser-all.dat



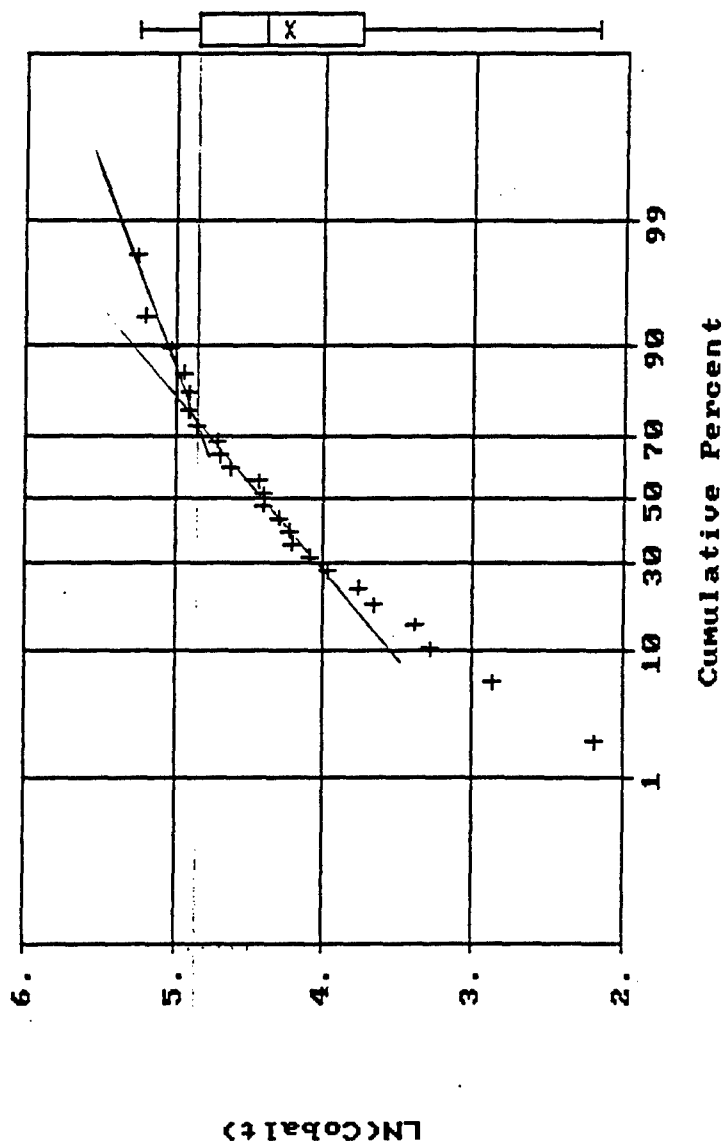
S t a t i s t i c s

N Total	:	46
N Miss	:	22
N Used	:	24
Mean	:	88.422
Variance	:	2584.180
Std. Dev.	:	50.835
% C.V.	:	57.491
Skewness	:	.318
Kurtosis	:	2.200
Minimum	:	8.900
25th %	:	42.769
Median	:	82.038
75th %	:	128.000
Maximum	:	191.000

Normal Probability Plot for LN(Cobalt)
Data file: ser-all.dat

Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	4.262
Variance:	.586
Std. Dev:	.765
% C.V. :	17.952
Skewness:	-1.013
Kurtosis:	3.584
Minimum :	2.186
25th % :	3.756
Median :	4.407
75th % :	4.852
Maximum :	5.252



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	82	Ser-Cr	Number of samples		Uncensored values		Sort data	
3	105	Ser-Cr	Uncensored	24	Mean	734.956	Create report	
4	132	Ser-Cr	Censored		Lognormal mean	816.385	Clear all	
5	157	Ser-Cr	Detection limit or PQL	-----	Std. devn.	484.072	Histogram	
6	205	Ser-Cr	Method detection limit	-----	Median	728.5	5	10
7	214.2857	Ser-Cr	TOTAL	24	Min.	82	20	
8	262	Ser-Cr	ENTER DATA		Max	1590		
9	363	Ser-Cr	Distribution Decision					
10	537.1901	Ser-Cr	Probability plot method		W test	D'Agostino's test		
11	556	Ser-Cr	Lognormal distribution?		Normal distribution?			
12	673.5751	Ser-Cr	r-squared is: 0.911		r-squared is: 0.949			
13	707	Ser-Cr	Recommendations					
14	750	Ser-Cr	Use lognormal distribution.					
15	812	Ser-Cr						
16	866	Ser-Cr						
17	911.5385	Ser-Cr						
18	913	Ser-Cr						
19	1046.6926	Ser-Cr						
20	1274.146	Ser-Cr						
21	1291.5129	Ser-Cr	Upper Confidence Limit (UCL)					
22	1300	Ser-Cr						
23	1310	Ser-Cr						
24	1580	Ser-Cr						
25	1590	Ser-Cr						
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Clear messages
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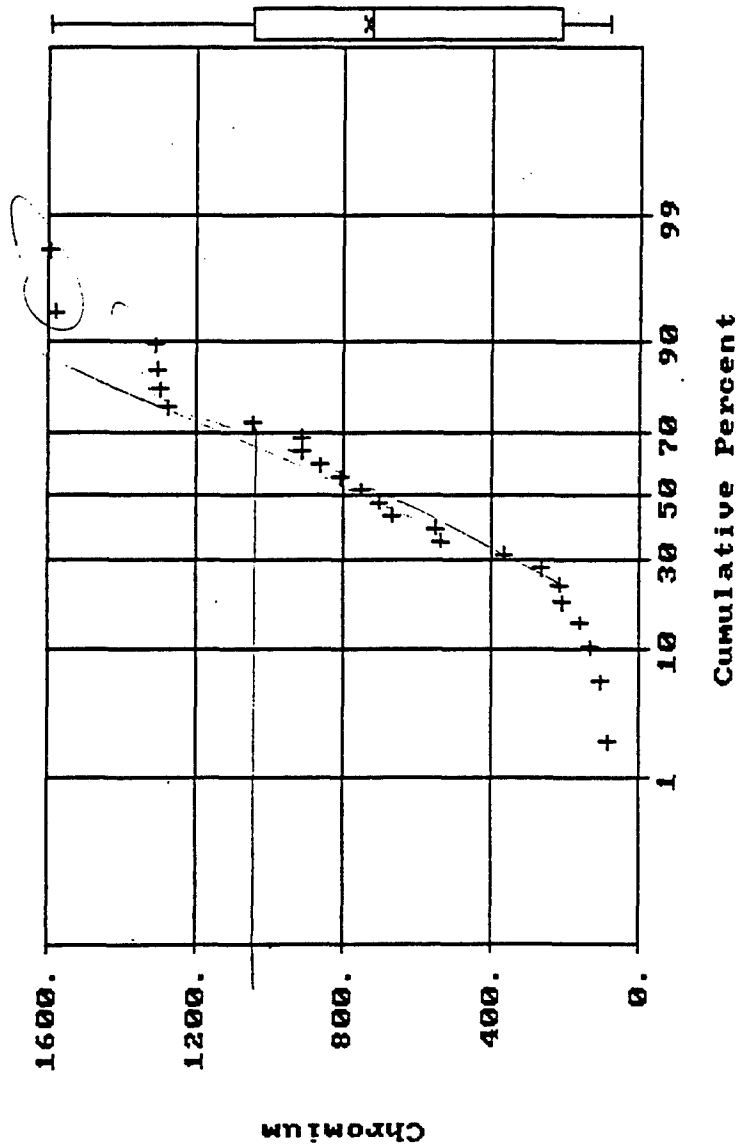
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	82	Ser-Cr	Number of samples		Uncensored values		Sort data	
3	105	Ser-Cr	Uncensored	24	Mean	734.958	Create report	
4	132	Ser-Cr	Censored		Lognormal mean	816.385	Clear all	
5	157	Ser-Cr	Detection limit or PQL		Std. devn.	484.072	Histogram	
6	205	Ser-Cr	Method detection limit		Median	728.5	5 10 20	
7	214.2857	Ser-Cr	TOTAL	24	Min.	82		
8	262	Ser-Cr	ENTER DATA		Max	1590		
9	363	Ser-Cr	Distribution Decision					
10	537.1901	Ser-Cr	Probability plot method		W test	D'Agostino's test		
11	556	Ser-Cr	Lognormal distribution?		Normal distribution?			
12	673.5751	Ser-Cr	r-squared is: 0.911		r-squared is: 0.949			
13	707	Ser-Cr	Recommendations:					
14	750	Ser-Cr	Reject lognormal distribution.					
15	812	Ser-Cr	W value is 0.8966. This is less than the tabled value of 0.916					
16	866	Ser-Cr	Assume normal distribution.					
17	911.5385	Ser-Cr	W value is 0.9309. This exceeds the tabled value of 0.916					
18	913	Ser-Cr	Upper Confidence Limit (UCL)					
19	1046.6926	Ser-Cr						
20	1274.146	Ser-Cr						
21	1291.5129	Ser-Cr						
22	1300	Ser-Cr						
23	1310	Ser-Cr						
24	1580	Ser-Cr						
25	1590	Ser-Cr						
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Normal Probability Plot for Chromium
Data file: ser-all.dat

S t a t i s t i c s

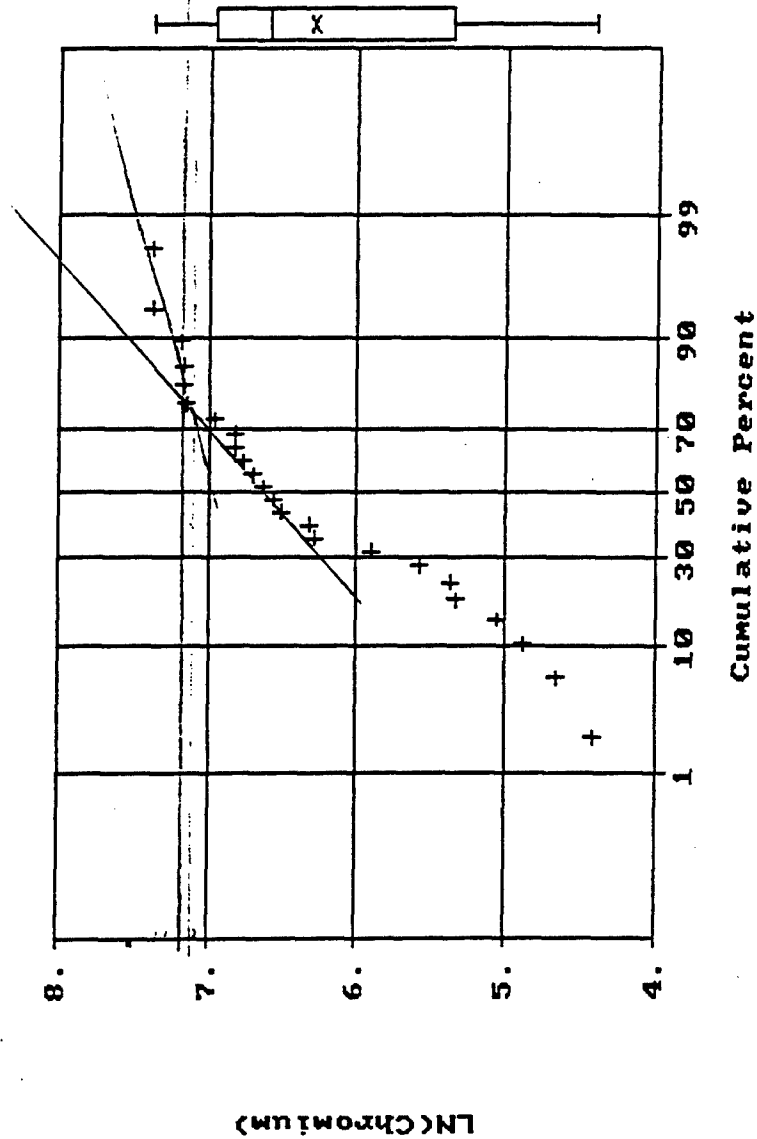
N Total :	46
N Miss :	22
N Used :	24
Mean :	734.956
Variance :	234325.500
Std. Dev :	484.072
% C.V. :	65.864
Skewness :	.224
Kurtosis :	1.863
Minimum :	82.000
25th % :	214.286
Median :	728.500
75th % :	1046.693
Maximum :	1590.000



Normal Probability Plot for LN(Chromium)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	6.288
Variance :	.835
Std. Dev :	.914
% C.V. :	14.531
Skewness :	-.681
Kurtosis :	2.166
Minimum :	4.407
25th % :	5.367
Median :	6.591
75th % :	6.953
Maximum :	7.371



$c^2 = 1210$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	5.08	Ser-Cu	Number of samples		Uncensored values		Sort data	
3	11.8	Ser-Cu	Uncensored	24	Mean	40.956	Create report	
4	12.6	Ser-Cu	Censored		Lognormal mean	43.205	Clear all	
5	17.3077	Ser-Cu	Detection limit or PQL		Std. devn.	20.771	Histogram	
6	20.3	Ser-Cu	Method detection limit		Median	41.1	5	10
7	21.3	Ser-Cu	TOTAL	24	Min.	5.08	20	
8	31.4	Ser-Cu	ENTER DATA		Max	95.9821		
9	34.9	Ser-Cu	Distribution Decision					
10	37.2	Ser-Cu	Probability plot method		W test	D'Agostino's test		
11	40.5	Ser-Cu	Lognormal distribution?		Normal distribution?			
12	41.035	Ser-Cu	r-squared is: 0.874		r-squared is: 0.941			
13	41.1	Ser-Cu	Recommendations:					
14	41.1	Ser-Cu	Use normal distribution.					
15	44.2283	Ser-Cu						
16	44.8	Ser-Cu						
17	44.9	Ser-Cu						
18	50	Ser-Cu						
19	50.1	Ser-Cu						
20	51	Ser-Cu						
21	51.468	Ser-Cu						
22	53	Ser-Cu	Upper Confidence Limit (UCL)					
23	64.5756	Ser-Cu						
24	77.2727	Ser-Cu						
25	95.9821	Ser-Cu						
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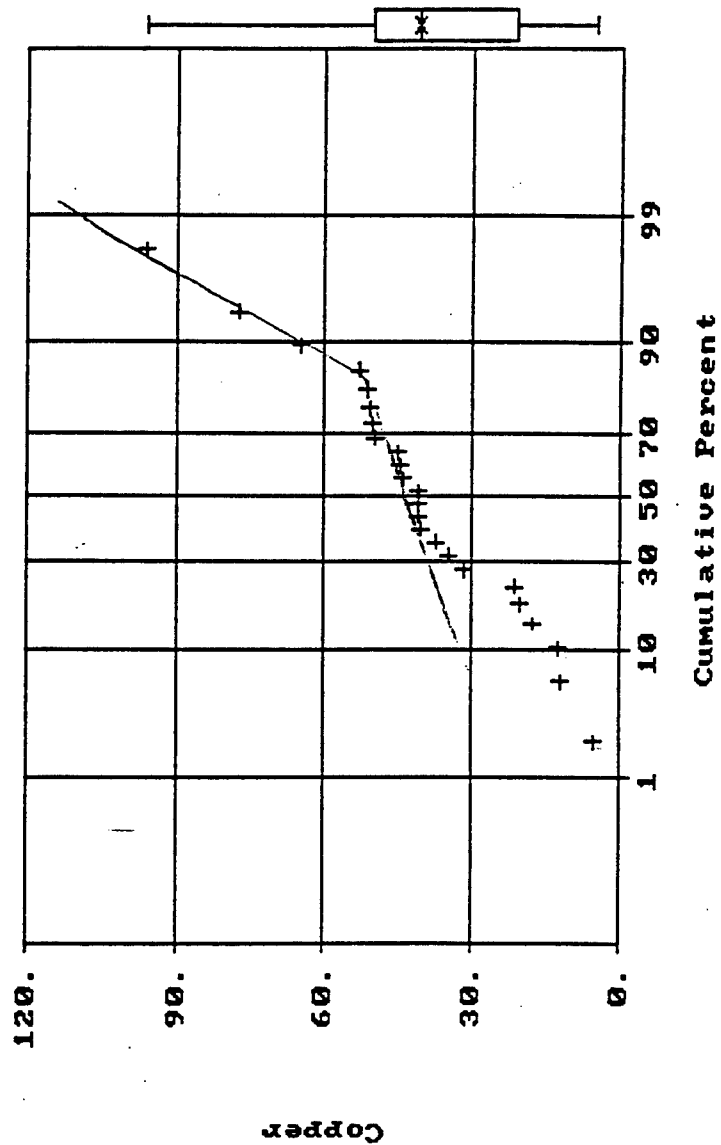
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	5.08	Ser-Cu	Number of samples		Uncensored values		Sort data	
3	11.8	Ser-Cu	Uncensored	24	Mean	40.956	Create report	
4	12.6	Ser-Cu	Censored		Lognormal mean	43.205	Clear all	
5	17.3077	Ser-Cu	Detection limit or PQL	-----	Std. devn.	20.771	Histogram	
6	20.3	Ser-Cu	Method detection limit	-----	Median	41.1	5	10
7	21.3	Ser-Cu	TOTAL	24	Min.	5.08	20	
8	31.4	Ser-Cu	ENTER DATA		Max	95.9821		
9	34.9	Ser-Cu	Distribution Decision					
10	37.2	Ser-Cu	Probability plot method		W test	D'Agostino's test		
11	40.5	Ser-Cu	Lognormal distribution?		Normal distribution?			
12	41.035	Ser-Cu	r-squared is: 0.874		r-squared is: 0.941			
13	41.1	Ser-Cu	Recommendations:					
14	41.1	Ser-Cu	Reject lognormal distribution.					
15	44.2283	Ser-Cu	W value is 0.8842. This is less than the tabled value of 0.916					
16	44.8	Ser-Cu	Assume normal distribution.					
17	44.9	Ser-Cu	W value is 0.9469. This exceeds the tabled value of 0.916					
18	50	Ser-Cu	Upper Confidence Limit (UCL)					
19	50.1	Ser-Cu						
20	51	Ser-Cu						
21	51.468	Ser-Cu						
22	53	Ser-Cu						
23	64.5756	Ser-Cu						
24	77.2727	Ser-Cu						
25	95.9821	Ser-Cu						
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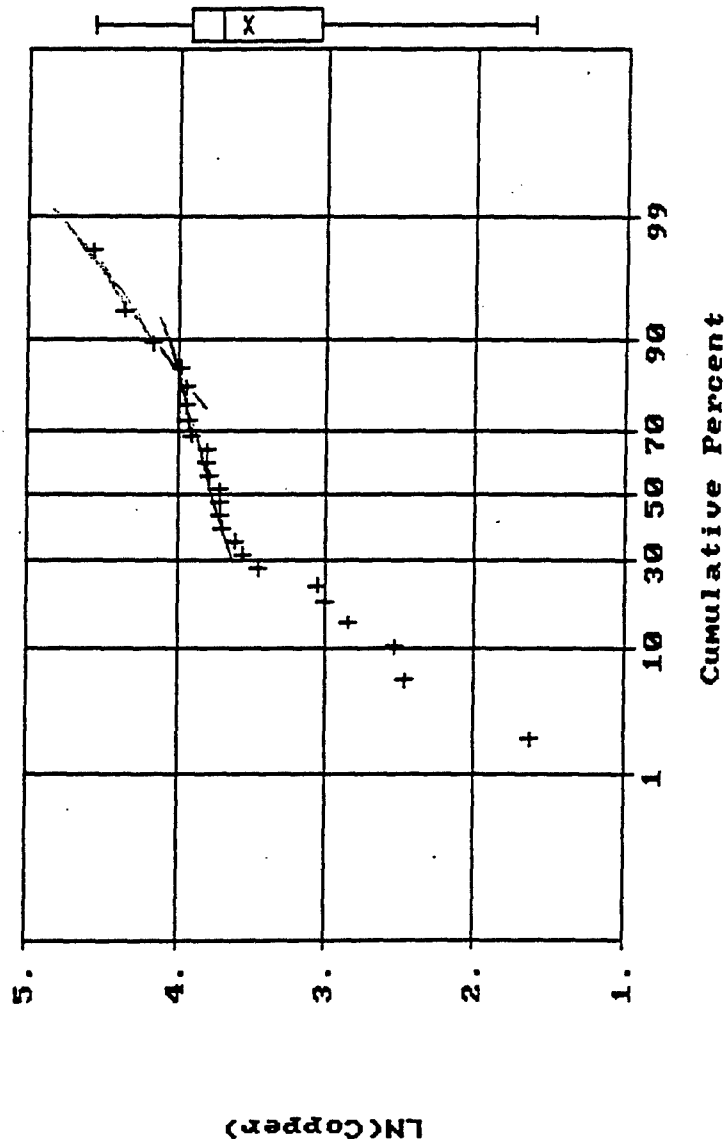
Normal Probability Plot for Copper
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	40.956
Variance:	431.452
Std. Dev:	20.771
% C.V. :	50.716
Skewness:	.539
Kurtosis:	3.645
Minimum :	5.080
25th % :	21.300
Median :	41.100
75th % :	50.100
Maximum :	95.982



Normal Probability Plot for LN(Copper)
Data file: ser-all.dat



S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	3.548
Variance :	.436
Std. Dev :	.660
% C.V. :	18.601
Skewness :	-1.216
Kurtosis :	4.355
Minimum :	1.625
25th % :	3.059
Median :	3.716
75th % :	3.914
Maximum :	4.564

$e^4 = 55$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	15625	Ser-Fe	Number of samples		Uncensored values		Sort data	
3	18000	Ser-Fe	Uncensored	24	Mean	48834.221	Create report	
4	19000	Ser-Fe	Censored		Lognormal mean	49737.701	Clear all	
5	21000	Ser-Fe	Detection limit or PQL		Std. devn.	20280.918	Histogram	
6	29000	Ser-Fe	Method detection limit		Median	51350	5 10 20	
7	35000	Ser-Fe	TOTAL	24	Min.	15625		
8	36000	Ser-Fe	ENTER DATA		Max	94301.664	Clear messages	
9	37000	Ser-Fe	Distribution Decision				Calculate UCL	
10	43000	Ser-Fe	Probability plot method		W test	D'Agostino's test	Lognormal	
11	44000	Ser-Fe	Lognormal distribution?		Normal distribution?		Normal	
12	46000	Ser-Fe	r-squared is: 0.927		r-squared is: 0.975		Neither	
13	50000	Ser-Fe	Recommendations:				Sample size	
14	52700	Ser-Fe	Use lognormal distribution.					
15	54000	Ser-Fe						
16	56826.5683	Ser-Fe						
17	58000	Ser-Fe						
18	58333.3333	Ser-Fe						
19	60000	Ser-Fe						
20	60000	Ser-Fe						
21	60330.5785	Ser-Fe						
22	70000	Ser-Fe	Upper Confidence Limit (UCL)					
23	73229.7064	Ser-Fe						
24	80674.4488	Ser-Fe						
25	94301.664	Ser-Fe						
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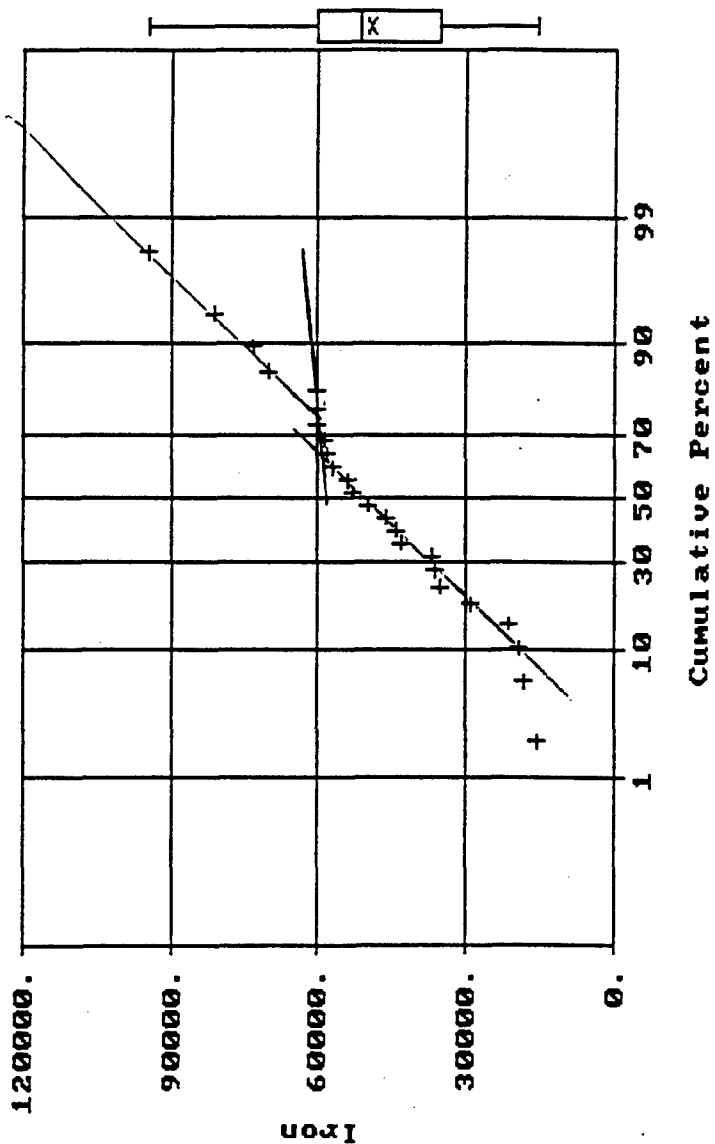
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	15625	Ser-Fe	Number of samples		Uncensored values		Sort data	
3	18000	Ser-Fe	Uncensored	24	Mean	48834.221	Create report	
4	19000	Ser-Fe	Censored		Lognormal mean	49737.701	Clear all	
5	21000	Ser-Fe	Detection limit or PQL	-----	Std. devn.	20280.918	Histogram	
6	29000	Ser-Fe	Method detection limit	-----	Median	51350	5 10 20	
7	35000	Ser-Fe	TOTAL	24	Min.	15625	Clear messages	
8	36000	Ser-Fe	ENTER DATA		Max	94301.664	Calculate UCL	
9	37000	Ser-Fe	Distribution Decision				Lognormal	
10	43000	Ser-Fe	Probability plot method		W test	D'Agostino's test	Normal	
11	44000	Ser-Fe	Lognormal distribution?		Normal distribution?		Neither	
12	46000	Ser-Fe	r-squared is: 0.927		r-squared is: 0.975		Sample size	
13	50000	Ser-Fe	Recommendations:					
14	52700	Ser-Fe	Assume lognormal distribution.					
15	54000	Ser-Fe	W value is 0.9211. This exceeds the tabled value of 0.916					
16	56826.5683	Ser-Fe						
17	58000	Ser-Fe						
18	58333.3333	Ser-Fe						
19	60000	Ser-Fe						
20	60000	Ser-Fe						
21	60330.5785	Ser-Fe						
22	70000	Ser-Fe	Upper Confidence Limit (UCL)					
23	73229.7064	Ser-Fe						
24	80674.4488	Ser-Fe						
25	94301.664	Ser-Fe						
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Normal Probability Plot for Iron
Data file: ser-all.dat

Statistics

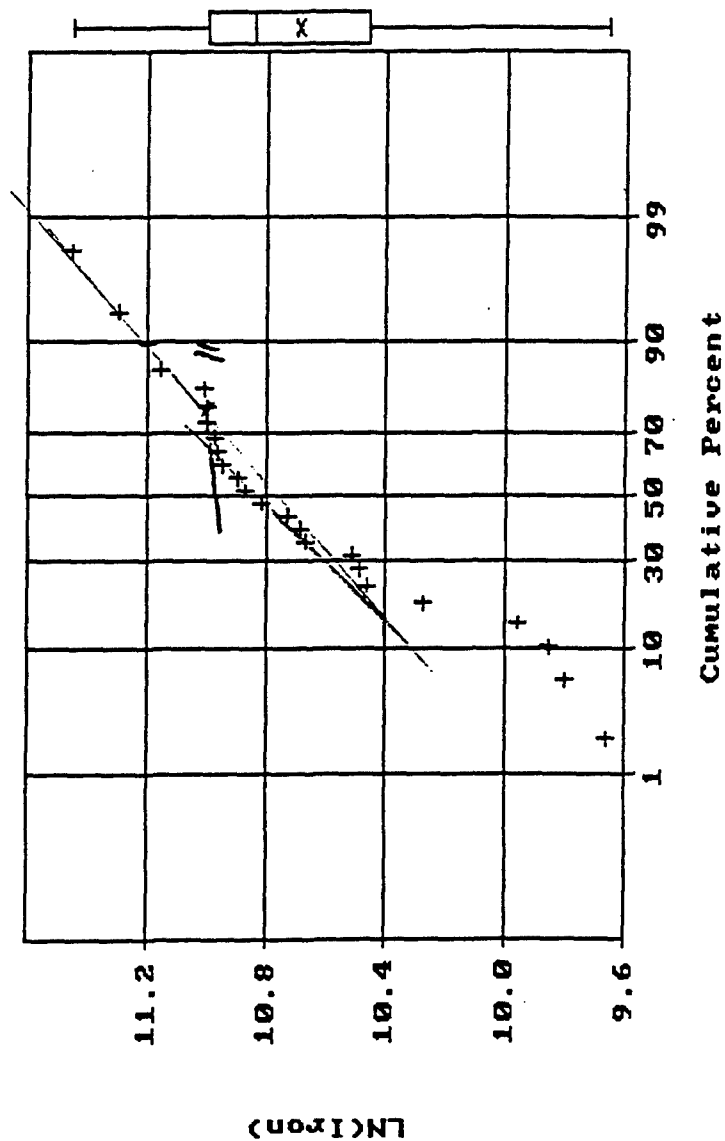
N Total :	46
N Miss :	22
N Used :	24
Mean :	48834.220
Variance :	411315600.000
Std. Dev :	20280.920
% C.V. :	41.530
Skewness :	.151
Kurtosis :	2.595
Minimum :	15625.000
25th % :	35000.000
Median :	51350.000
75th % :	60000.000
Maximum :	94301.660



Normal Probability Plot for LN(Iron)
Data file: ser-all.dat

Statistics

N Total :	46
N Miss :	22
N Used :	24
Mean :	10.696
Variance :	.237
Std. Dev. :	.487
% C.V. :	4.551
Skewness :	-.739
Kurtosis :	2.655
Minimum :	9.657
25th % :	10.463
Median :	10.846
75th % :	11.002
Maximum :	11.454



$e'' = 60$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0135	Ser-Hg	Number of samples		Uncensored values		Sort data	
3	0.0135	Ser-Hg	Uncensored	24	Mean	0.041	Create report	
4	0.0135	Ser-Hg	Censored		Lognormal mean	0.041	Clear all	
5	0.0135	Ser-Hg	Detection limit or PQL	-----	Std. devn.	0.030	Histogram	
6	0.0135	Ser-Hg	Method detection limit	-----	Median	0.0295	5	10
7	0.025	Ser-Hg	TOTAL	24	Min.	0.0135	20	
8	0.025	Ser-Hg	ENTER DATA		Max	0.151		
9	0.0295	Ser-Hg	Distribution Decision					
10	0.0295	Ser-Hg	Probability plot method		W test	D'Agostino's test		
11	0.0295	Ser-Hg	Lognormal distribution?		Normal distribution?			
12	0.0295	Ser-Hg	r-squared is: 0.942		r-squared is: 0.758			
13	0.0295	Ser-Hg	Recommendations					
14	0.0295	Ser-Hg	Use lognormal distribution.					
15	0.034	Ser-Hg						
16	0.04	Ser-Hg						
17	0.042	Ser-Hg						
18	0.043	Ser-Hg						
19	0.049	Ser-Hg						
20	0.057	Ser-Hg						
21	0.063	Ser-Hg						
22	0.067	Ser-Hg	Upper Confidence Limit (UCL)					
23	0.069	Ser-Hg						
24	0.077	Ser-Hg						
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Clear messages
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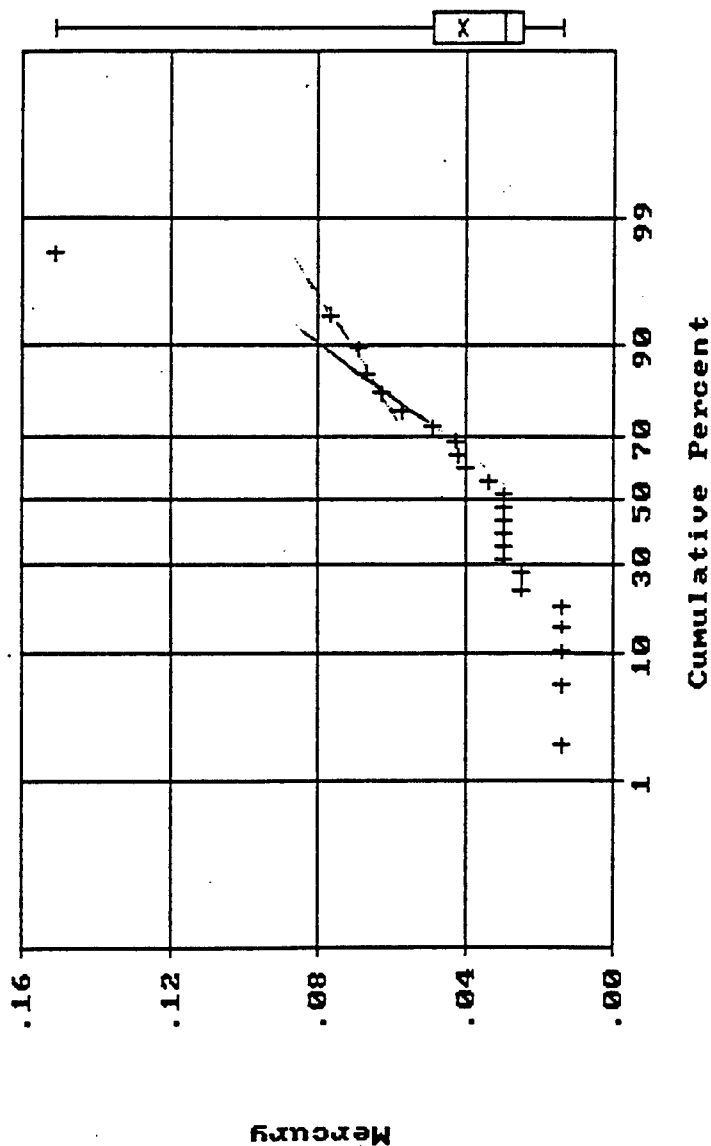
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0135	Ser-Hg	Number of samples		Uncensored values		Sort data	
3	0.0135	Ser-Hg	Uncensored	24	Mean	0.041	Create report	
4	0.0135	Ser-Hg	Censored		Lognormal mean	0.041	Clear all	
5	0.0135	Ser-Hg	Detection limit or PQL		Std. devn.	0.030	Histogram	
6	0.0135	Ser-Hg	Method detection limit		Median	0.0295	5 10 20	
7	0.025	Ser-Hg	TOTAL	24	Min.	0.0135		
8	0.025	Ser-Hg	ENTER DATA		Max	0.151		
9	0.0295	Ser-Hg	Distribution Decision					
10	0.0295	Ser-Hg	Probability plot method		W test	D'Agostino's test		
11	0.0295	Ser-Hg	Lognormal distribution?		Normal distribution?			
12	0.0295	Ser-Hg	r-squared is: 0.942		r-squared is: 0.758			
13	0.0295	Ser-Hg	Recommendations					
14	0.0295	Ser-Hg	Assume lognormal distribution.					
15	0.034	Ser-Hg	W value is 0.9369. This exceeds the tabled value of 0.916					
16	0.04	Ser-Hg						
17	0.042	Ser-Hg						
18	0.043	Ser-Hg						
19	0.049	Ser-Hg						
20	0.057	Ser-Hg						
21	0.063	Ser-Hg	Upper Confidence Limit (UCL)					
22	0.067	Ser-Hg						
23	0.069	Ser-Hg						
24	0.077	Ser-Hg						
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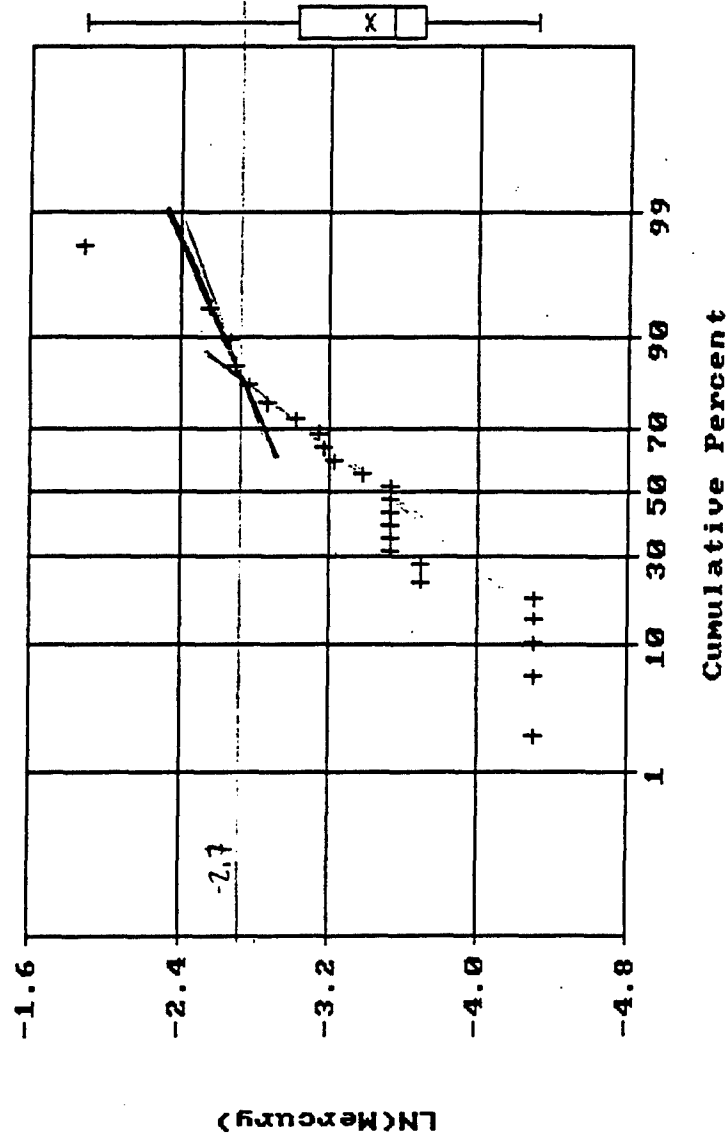
Normal Probability Plot for Mercury
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	.041
Variance:	.001
Std. Dev:	.030
% C.V. :	73.164
Skewness:	2.130
Kurtosis:	8.432
Minimum :	.014
25th % :	.025
Median :	.030
75th % :	.049
Maximum :	.151



Normal Probability Plot for LN(Mercury)
Data file: ser-all.dat



S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	-3.393
Variance :	.406
Std. Dev :	.637
% C.V. :	18.772
Skewness :	.222
Kurtosis :	2.702
Minimum :	-4.305
25th % :	-3.689
Median :	-3.523
75th % :	-3.016
Maximum :	-1.890

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	249	Ser-Mn	Number of samples		Uncensored values		Sort data	
3	252.2321	Ser-Mn	Uncensored	24	Mean	736.160	Create report	
4	355.3719	Ser-Mn	Censored		Lognormal mean	740.173	Clear all	
5	370	Ser-Mn	Detection limit or PQL		Std. devn.	382.429	Histogram	
6	473	Ser-Mn	Method detection limit		Median	687.5	5 10 20	
7	504	Ser-Mn	TOTAL	24	Min.	249		
8	505	Ser-Mn	ENTER DATA		Max.	2089.81	Clear messages	
9	590.1427	Ser-Mn	Distribution Decision				Calculate UCL	
10	594.0959	Ser-Mn	Probability plot method		W test	D'Agostino's test	Lognormal	
11	601	Ser-Mn	Lognormal distribution?		Normal distribution?		Normal	
12	612	Ser-Mn	r-squared is: 0.955		r-squared is: 0.819		Neither	
13	613	Ser-Mn	Recommendations:				Sample size	
14	762	Ser-Mn	Use lognormal distribution.					
15	791	Ser-Mn						
16	802	Ser-Mn						
17	811	Ser-Mn						
18	811	Ser-Mn						
19	822	Ser-Mn						
20	825.641	Ser-Mn						
21	870	Ser-Mn						
22	1024.556	Ser-Mn	Upper Confidence Limit (UCL)					
23	1140	Ser-Mn						
24	1200	Ser-Mn						
25	2089.81	Ser-Mn						
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Background data analysis

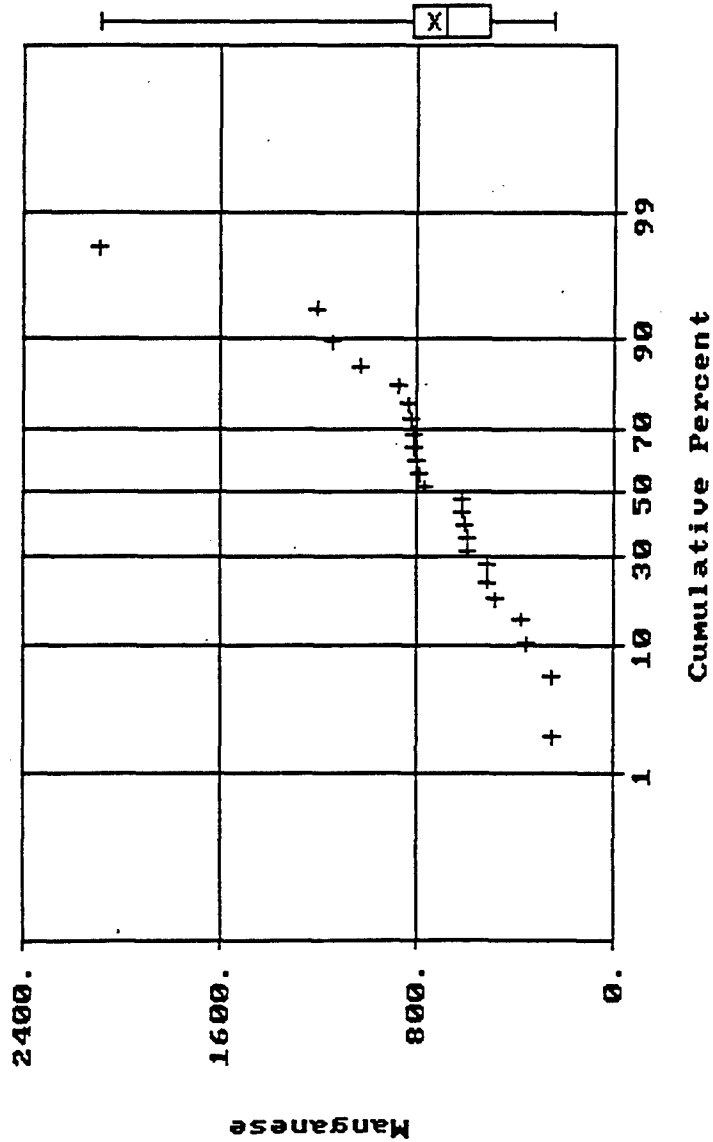
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	249	Ser-Mn	Number of samples				Sort data	
3	252.2321	Ser-Mn	Uncensored values				Create report	
4	355.3719	Ser-Mn	Uncensored	24	Mean	736.160	Clear all	
5	370	Ser-Mn	Censored		Lognormal mean	740.173	Histogram	
6	473	Ser-Mn	Detection limit or PQL	-----	Std. devn.	382.429	5	10
7	504	Ser-Mn	Method detection limit	-----	Median	687.5	20	
8	505	Ser-Mn	TOTAL	24	Min.	249		
9	590.1427	Ser-Mn	ENTER DATA		Max	2089.81		
10	594.0959	Ser-Mn	Distribution Decision					
11	601	Ser-Mn	Probability plot method		W test	D'Agostino's test		
12	612	Ser-Mn	Lognormal distribution?		Normal distribution?			
13	613	Ser-Mn	r-squared is: 0.955		r-squared is: 0.819			
14	762	Ser-Mn	Recommendations					
15	791	Ser-Mn	Assume lognormal distribution.					
16	802	Ser-Mn	VV value is 0.9608. This exceeds the tabled value of 0.916					
17	811	Ser-Mn						
18	811	Ser-Mn						
19	822	Ser-Mn						
20	825.641	Ser-Mn						
21	870	Ser-Mn	Upper Confidence Limit (UCL)					
22	1024.556	Ser-Mn						
23	1140	Ser-Mn						
24	1200	Ser-Mn						
25	2089.81	Ser-Mn						
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Calculate UCL
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 Sample size

Normal Probability Plot for Manganese
Data file: ser-all.dat

S t a t i s t i c s

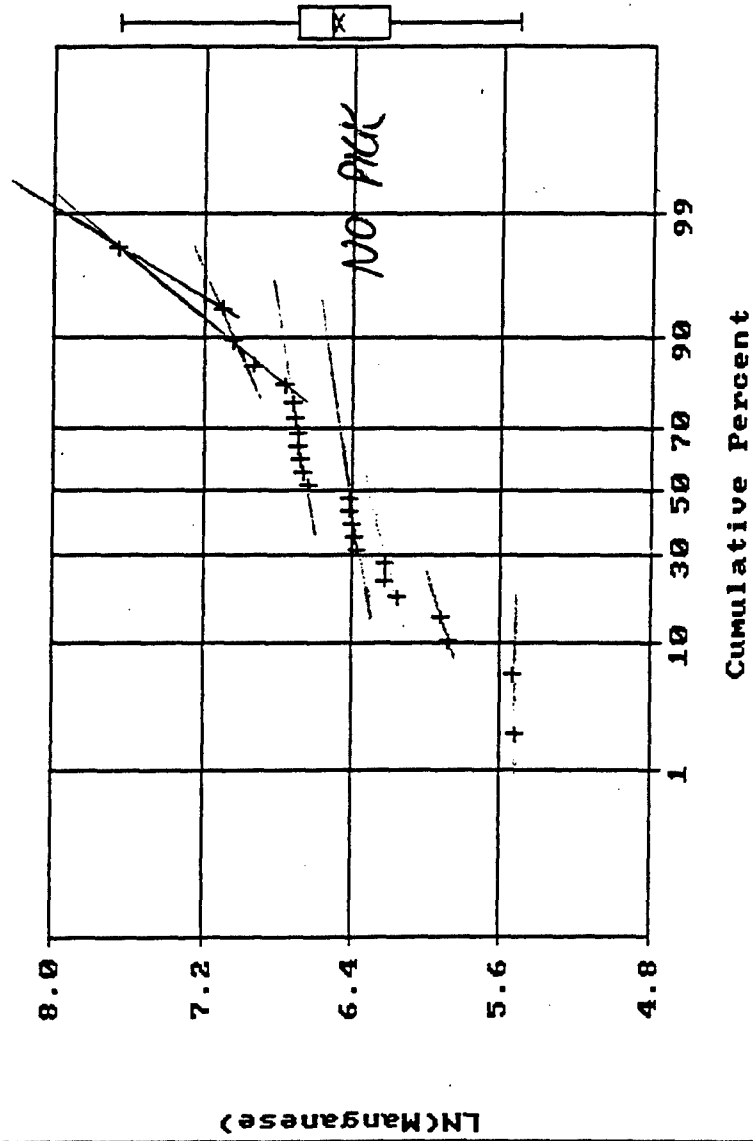
N Total :	46
N Miss :	22
N Used :	24
Mean :	736.160
Variance:	146252.200
Std. Dev:	382.429
% C.V. :	51.949
Skewness:	1.816
Kurtosis:	7.636
Minimum :	249.000
25th % :	504.000
Median :	687.500
75th % :	822.000
Maximum :	2089.810



Normal Probability Plot for LN(Manganese)
Data file: ser-all.dat

S t a t i s t i c s

N Total	:	46
N Miss	:	22
N Used	:	24
Mean	:	6.489
Variance	:	.236
Std. Dev.	:	.485
% C.V.	:	7.482
Skewness	:	-.080
Kurtosis	:	3.327
Minimum	:	5.517
25th %	:	6.223
Median	:	6.527
75th %	:	6.712
Maximum	:	7.645



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	71	Ser-Ni	Number of samples		Uncensored values		Sort data	
3	99.4	Ser-Ni	Uncensored	24	Mean	1457.901	Create report	
4	131	Ser-Ni	Censored		Lognormal mean	1861.205	Clear all	
5	141	Ser-Ni	Detection limit or PQL		Std. devn.	1208.348	Histogram	
6	212	Ser-Ni	Method detection limit		Median	1210	5 10 20	
7	238.8393	Ser-Ni	TOTAL	24	Min.	71	Clear messages	
8	325	Ser-Ni	ENTER DATA		Max	3955.095	Calculate UCL	
9	381.1983	Ser-Ni	Distribution Decision				Lognormal	
10	559	Ser-Ni	Probability plot method		W test	D'Agostino's test	Normal	
11	927	Ser-Ni	Lognormal distribution?		Normal distribution?		Neither	
12	1020	Ser-Ni	r-squared is: 0.912		r-squared is: 0.922		Sample size	
13	1120	Ser-Ni	Recommendations					
14	1300	Ser-Ni	Use lognormal distribution.					
15	1840	Ser-Ni						
16	1943.4194	Ser-Ni						
17	2040	Ser-Ni						
18	2100	Ser-Ni						
19	2190	Ser-Ni						
20	2310	Ser-Ni						
21	2526.662	Ser-Ni	Upper Confidence Limit (UCL)					
22	2538.4615	Ser-Ni						
23	3350	Ser-Ni						
24	3670.5577	Ser-Ni						
25	3955.095	Ser-Ni						
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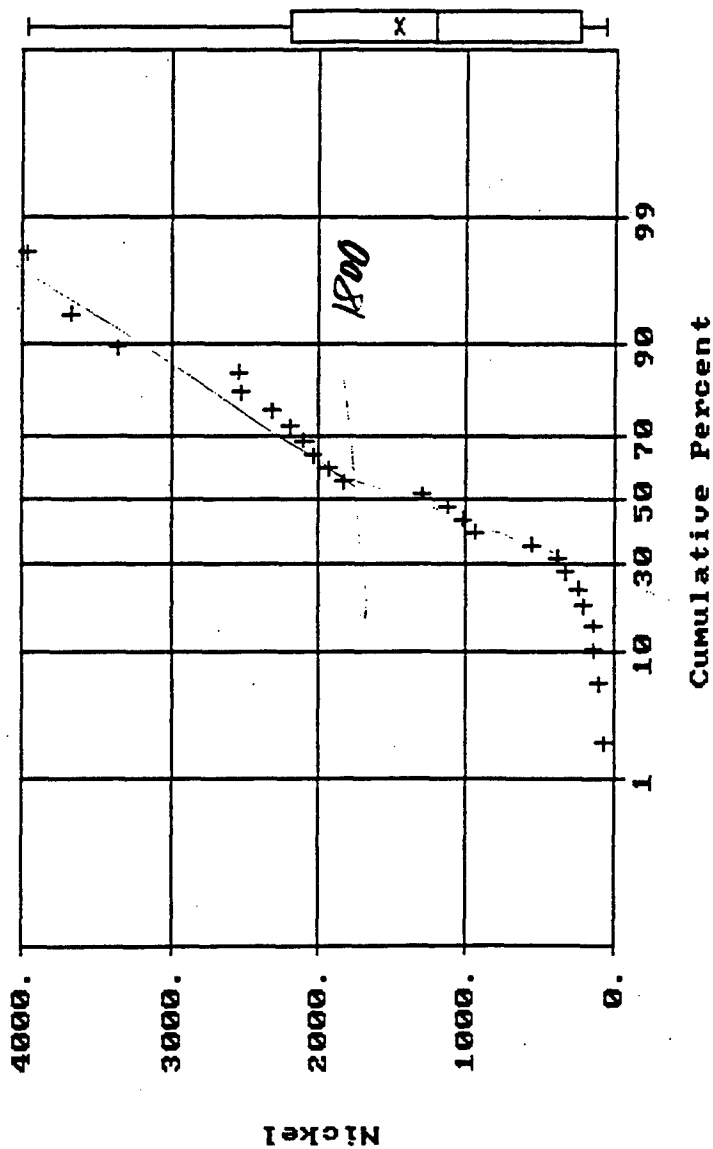
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	71	Ser-Ni	Number of samples		Uncensored values		Sort data	
3	99.4	Ser-Ni	Uncensored	24	Mean	1457.901	Create report	
4	131	Ser-Ni	Censored		Lognormal mean	1861.205	Clear all	
5	141	Ser-Ni	Detection limit or PQL		Std. devn.	1208.348	Histogram	
6	212	Ser-Ni	Method detection limit		Median	1210	5	10
7	238.8393	Ser-Ni	TOTAL	24	Min.	71	20	
8	325	Ser-Ni	ENTER DATA		Max	3955.095	Clear messages	
9	381.1983	Ser-Ni	Distribution Decision				Calculate UCL	
10	559	Ser-Ni	Probability plot method		W test	D'Agostino's test	Lognormal	
11	927	Ser-Ni	Lognormal distribution?		Normal distribution?		Normal	
12	1020	Ser-Ni	r-squared is: 0.912		r-squared is: 0.922		Neither	
13	1120	Ser-Ni	Recommendations:					
14	1300	Ser-Ni	Reject lognormal distribution.					
15	1840	Ser-Ni	W value is 0.8971. This is less than the tabled value of 0.916					
16	1943.4194	Ser-Ni	Reject normal distribution.					
17	2040	Ser-Ni	W value is 0.907. This is less than the tabled value of 0.916					
18	2100	Ser-Ni	Upper Confidence Limit (UCL)					
19	2190	Ser-Ni						
20	2310	Ser-Ni						
21	2526.662	Ser-Ni						
22	2538.4615	Ser-Ni						
23	3350	Ser-Ni						
24	3670.5577	Ser-Ni						
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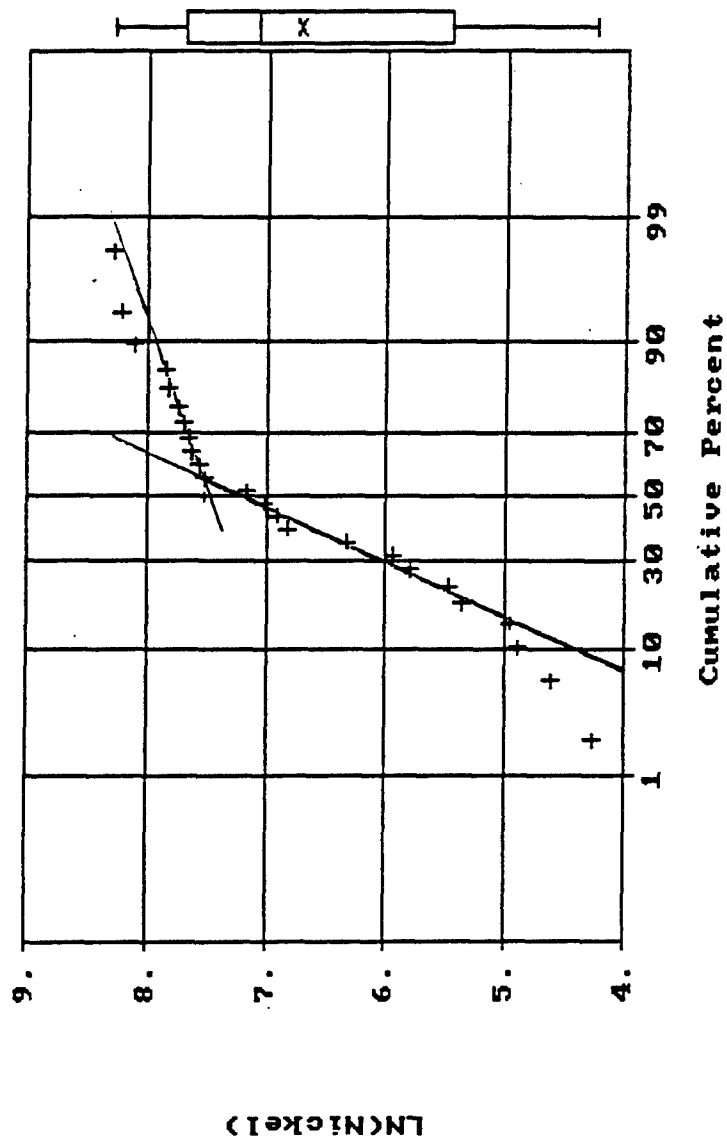
Normal Probability Plot for Nickel
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	1457.901
Variance:	1460105.000
Std. Dev:	1208.348
% C.V. :	82.883
Skewness:	.505
Kurtosis:	2.152
Minimum :	71.000
25th % :	238.839
Median :	1210.000
75th % :	2190.000
Maximum :	3955.095



Normal Probability Plot for LN(Nickel)
Data file: ser-all.dat



S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	6.733
Variance:	1.591
Std. Dev:	1.261
% C.V. :	18.734
Skewness:	-.577
Kurtosis:	1.947
Minimum :	4.263
25th % :	5.476
Median :	7.096
75th % :	7.692
Maximum :	8.283

0.75 = 1800

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.235	Ser-Pb	Number of samples				Sort data	
3	0.482	Ser-Pb	Uncensored values				Create report	
4	0.769	Ser-Pb	Uncensored	46	Mean	84.741	Clear all	
5	1.82	Ser-Pb	Censored		Lognormal mean	75.922	Histogram	
6	2.4	Ser-Pb	Detection limit or PQL		Std. devn.	214.945	5	10
7	3.44	Ser-Pb	Method detection limit		Median	12.5	20	
8	3.68	Ser-Pb	TOTAL	46	Min.	0.235		
9	3.72	Ser-Pb	ENTER DATA		Max	1090		
10	3.72	Ser-Pb	Distribution Decision					
11	3.95	Ser-Pb	Probability plot method		W test	D'Agostino's test		
12	4.0128	Ser-Pb	Lognormal distribution?		Normal distribution?			
13	4.4772	Ser-Pb	r-squared is: 0.958		r-squared is: 0.413			
14	4.68	Ser-Pb	Recommendations:					
15	4.77	Ser-Pb	Assume lognormal distribution.					
16	4.77	Ser-Pb	W value is 0.9481. This exceeds the tabled value of 0.945					
17	4.8	Ser-Pb						
18	6.29	Ser-Pb						
19	8.33	Ser-Pb						
20	9.04	Ser-Pb						
21	12.5	Ser-Pb	Upper Confidence Limit (UCL)					
22	12.5	Ser-Pb						
23	12.5	Ser-Pb						
24	12.5	Ser-Pb						
25	12.5	Ser-Pb						
26	12.5	Ser-Pb						
27	12.5	Ser-Pb						
28	12.5	Ser-Pb						
29	12.5	Ser-Pb						
30	12.5	Ser-Pb						
31	12.5	Ser-Pb						
32	12.5	Ser-Pb						
33	19.0083	Ser-Pb						
34	22	Ser-Pb						
35	29	Ser-Pb						
36	34.5982	Ser-Pb						
37	57	Ser-Pb						
38	57.3	Ser-Pb						
39	82.8	Ser-Pb						
40	100	Ser-Pb						
41	100	Ser-Pb						
42	160	Ser-Pb						
43	300	Ser-Pb						
44	335	Ser-Pb						
45	390	Ser-Pb						
46	896	Ser-Pb						
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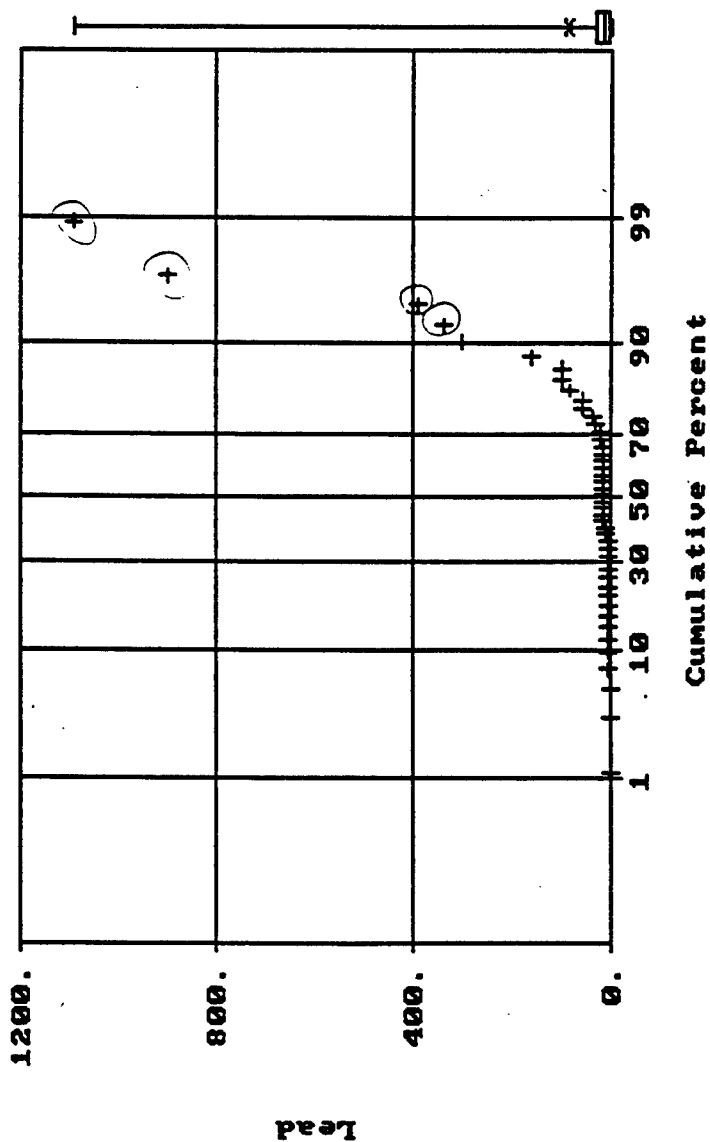
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.235	Ser-Pb	Number of samples		Uncensored values		Sort data	
3	0.482	Ser-Pb	Uncensored	48	Mean	84.741	Create report	
4	0.769	Ser-Pb	Censored		Lognormal mean	75.922	Clear all	
5	1.82	Ser-Pb	Detection limit or PQL	-----	Std. devn.	214.945	Histogram	
6	2.4	Ser-Pb	Method detection limit		Median	12.5	5 10 20	
7	3.44	Ser-Pb	TOTAL	48	Min.	0.235		
8	3.68	Ser-Pb	ENTER DATA		Max	1090		
9	3.72	Ser-Pb	Distribution Decision					
10	3.72	Ser-Pb	Probability plot method		W test	D'Agostino's test		
11	3.95	Ser-Pb	Lognormal distribution?		Normal distribution?			
12	4.0128	Ser-Pb	r-squared is: 0.950		r-squared is: 0.413			
13	4.4772	Ser-Pb	Recommendations:					
14	4.68	Ser-Pb	Use lognormal distribution.					
15	4.77	Ser-Pb						
16	4.77	Ser-Pb						
17	4.8	Ser-Pb						
18	6.29	Ser-Pb						
19	8.33	Ser-Pb						
20	9.04	Ser-Pb						
21	12.5	Ser-Pb						
22	12.5	Ser-Pb	Upper Confidence Limit (UCL)					
23	12.5	Ser-Pb						
24	12.5	Ser-Pb						
25	12.5	Ser-Pb						
26	12.5	Ser-Pb						
27	12.5	Ser-Pb						
28	12.5	Ser-Pb						
29	12.5	Ser-Pb						
30	12.5	Ser-Pb						
31	12.5	Ser-Pb						
32	12.5	Ser-Pb						
33	19.0083	Ser-Pb						
34	22	Ser-Pb						
35	29	Ser-Pb						
36	34.5982	Ser-Pb						
37	57	Ser-Pb						
38	57.3	Ser-Pb						
39	82.8	Ser-Pb						
40	100	Ser-Pb						
41	100	Ser-Pb						
42	160	Ser-Pb						
43	300	Ser-Pb						
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Normal Probability Plot for Lead
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	0
N Used :	46
Mean :	84.741
Variance :	46201.210
Std. Dev :	214.945
% C.V. :	253.649
Skewness :	3.595
Kurtosis :	15.647
Minimum :	.235
25th % :	4.245
Median :	12.500
75th % :	31.799
Maximum :	1090.000

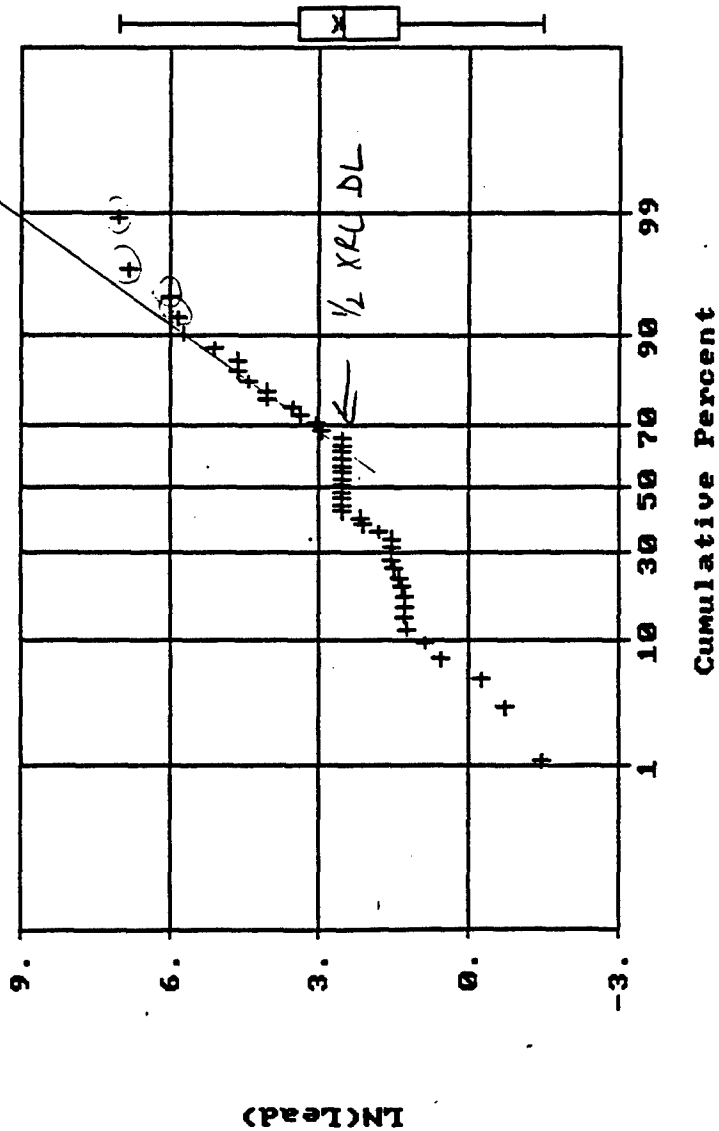


4 outliers

Normal Probability Plot for LN(Lead)
Data file: ser-all.dat

Statistics

N Total :	46
N Miss :	0
N Used :	46
Mean :	2.656
Variance :	3.347
Std. Dev :	1.829
% C.V. :	68.877
Skewness :	.442
Kurtosis :	3.200
Minimum :	-1.448
25th % :	1.444
Median :	2.526
75th % :	3.456
Maximum :	6.994



4 outliers

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.5	Ser-Sb	Number of samples		Uncensored values		Sort data	
3	9.8	Ser-Sb	Uncensored	27	Mean	47.100	Create report	
4	9.8	Ser-Sb	Censored		Lognormal mean	45.523	Clear all	
5	12.5	Ser-Sb	Detection limit or PQL	-----	Std. devn.	59.826	Histogram	
6	12.5	Ser-Sb	Method detection limit	-----	Median	20.85	5	10
7	12.5	Ser-Sb	TOTAL	27	Min.	2.5	20	
8	12.5	Ser-Sb	ENTER DATA		Max	195		
9	12.5	Ser-Sb	Distribution Decision					
10	12.5	Ser-Sb	Probability plot method		W test	D'Agostino's test		
11	12.5	Ser-Sb	Lognormal distribution?		Normal distribution?			
12	12.5	Ser-Sb	r-squared is: 0.844		r-squared is: 0.663			
13	12.5	Ser-Sb	Recommendations					
14	20.65	Ser-Sb	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	20.65	Ser-Sb						
16	20.65	Ser-Sb						
17	20.65	Ser-Sb						
18	20.65	Ser-Sb						
19	20.65	Ser-Sb						
20	20.65	Ser-Sb						
21	20.65	Ser-Sb	Upper Confidence Limit (UCL)					
22	71.9	Ser-Sb						
23	100	Ser-Sb						
24	123	Ser-Sb						
25	125	Ser-Sb						
26	167	Ser-Sb						
27	190	Ser-Sb						
28	195	Ser-Sb						
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Calculate UCL

Lognormal

Normal

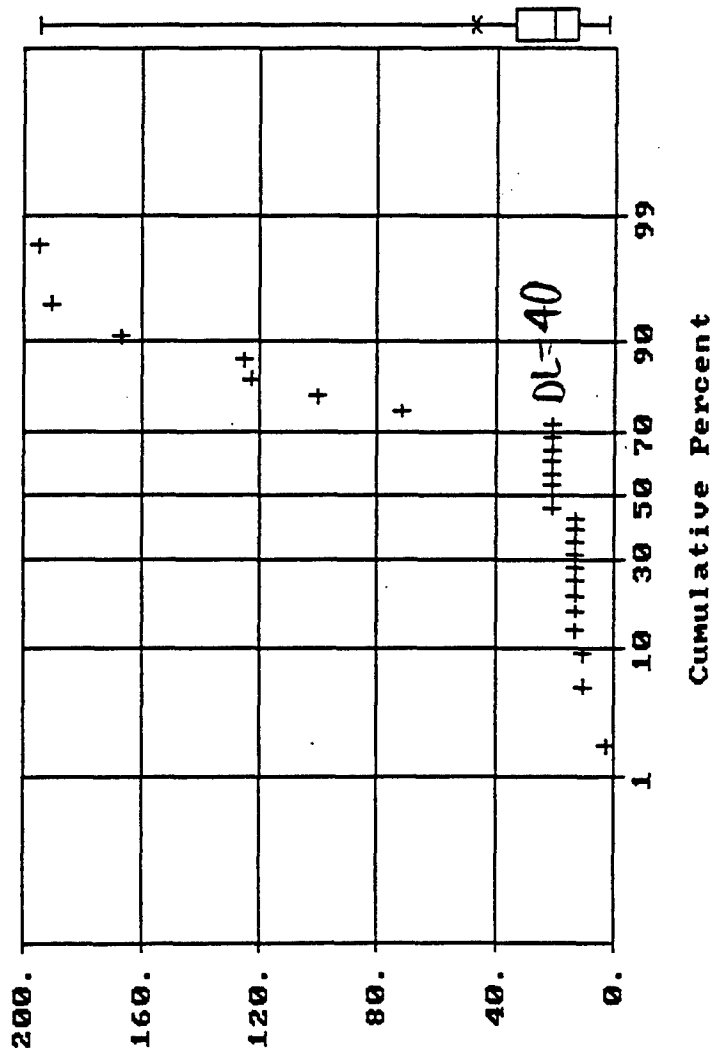
Neither

Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.5	Ser-Sb	Number of samples		Uncensored values		Sort data	
3	9.8	Ser-Sb	Uncensored	27	Mean	47.100	Create report	
4	9.8	Ser-Sb	Censored		Lognormal mean	45.523	Clear all	
5	12.5	Ser-Sb	Detection limit or PQL		Std. devn.	59.826	Histogram	
6	12.5	Ser-Sb	Method detection limit		Median	20.65	5	10
7	12.5	Ser-Sb	TOTAL	27	Min.	2.5	20	
8	12.5	Ser-Sb	ENTER DATA		Max	195	Clear messages	
9	12.5	Ser-Sb	Distribution Decision				Calculate UCL	
10	12.5	Ser-Sb	Probability plot method		W test	D'Agostino's test	Lognormal	
11	12.5	Ser-Sb	Lognormal distribution?		Normal distribution?		Normal	
12	12.5	Ser-Sb	r-squared is: 0.844		r-squared is: 0.653		Neither	
13	12.5	Ser-Sb	Recommendations:				Sample size	
14	20.65	Ser-Sb	Reject lognormal distribution.					
15	20.65	Ser-Sb	W value is 0.8443. This is less than the tabled value of 0.923					
16	20.65	Ser-Sb	Reject normal distribution.					
17	20.65	Ser-Sb	W value is 0.6586. This is less than the tabled value of 0.923					
18	20.65	Ser-Sb	Upper Confidence Limit (UCL)					
19	20.65	Ser-Sb						
20	20.65	Ser-Sb						
21	20.65	Ser-Sb						
22	71.9	Ser-Sb						
23	100	Ser-Sb						
24	123	Ser-Sb						
25	125	Ser-Sb						
26	167	Ser-Sb						
27	190	Ser-Sb						
28	195	Ser-Sb						
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Normal Probability Plot for Antimony
Data file: ser-all.dat



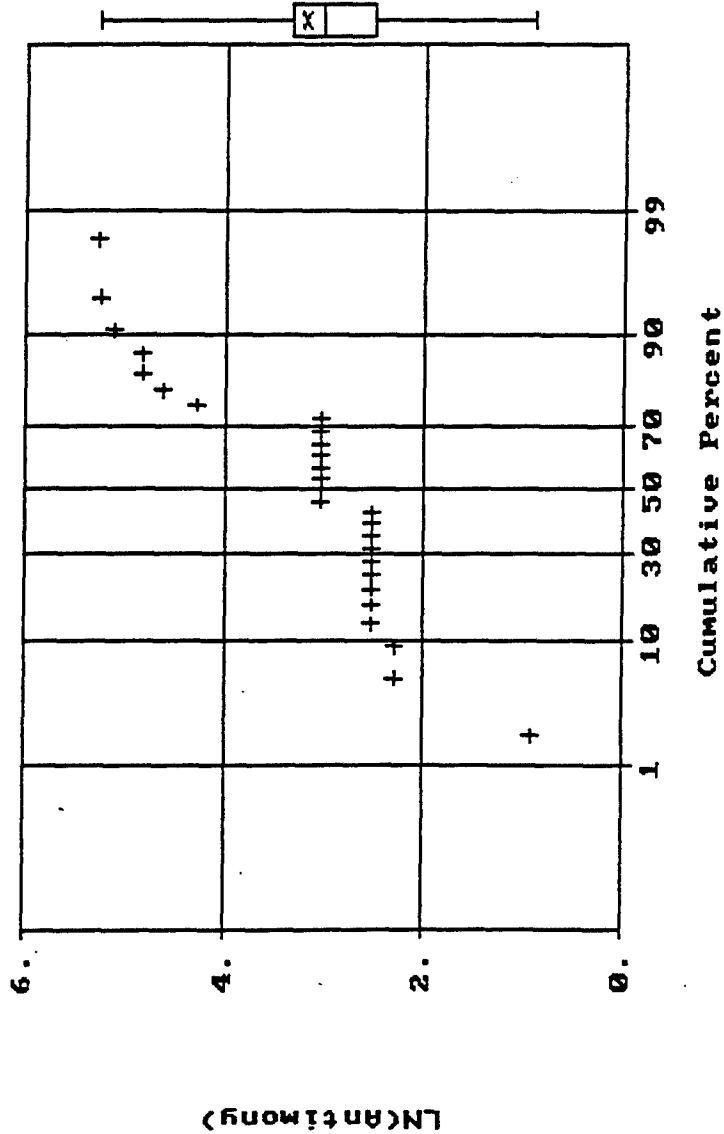
S t a t i s t i c s

N Total :	46
N Miss :	19
N Used :	27
Mean :	47.100
Variance :	3579.096
Std. Dev. :	59.826
% C.V. :	127.018
Skewness :	1.508
Kurtosis :	3.757
Minimum :	2.500
25th % :	12.500
Median :	20.650
75th % :	33.463
Maximum :	195.000

Normal Probability Plot for LN(Antimony)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	19
N Used :	27
Mean :	3.207
Variance:	1.222
Std. Dev:	1.105
% C.V. :	34.469
Skewness:	.584
Kurtosis:	2.634
Minimum :	.916
25th % :	2.526
Median :	3.028
75th % :	3.340
Maximum :	5.273



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Ser-Se	Uncensored	24	Mean	0.369	Create report	
4	0.125	Ser-Se	Censored		Lognormal mean	0.317	Clear all	
5	0.125	Ser-Se	Detection limit or PQL		Std. devn.	0.546	Histogram	
6	0.125	Ser-Se	Method detection limit		Median	0.1665	5 10 20	
7	0.125	Ser-Se	TOTAL	24	Min.	0.125		
8	0.125	Ser-Se	ENTER DATA		Max	2.37		
9	0.125	Ser-Se	Distribution Decision					
10	0.125	Ser-Se	Probability plot method		W test	D'Agostino's test		
11	0.125	Ser-Se	Lognormal distribution?		Normal distribution?			
12	0.125	Ser-Se	r-squared is: 0.678		r-squared is: 0.491			
13	0.125	Ser-Se	Recommendations:					
14	0.208	Ser-Se	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.208	Ser-Se						
16	0.208	Ser-Se						
17	0.208	Ser-Se						
18	0.208	Ser-Se						
19	0.208	Ser-Se						
20	0.2245	Ser-Se						
21	0.2245	Ser-Se						
22	0.6	Ser-Se	Upper Confidence Limit (UCL)					
23	1.29	Ser-Se						
24	1.39	Ser-Se						
25	2.37	Ser-Se						
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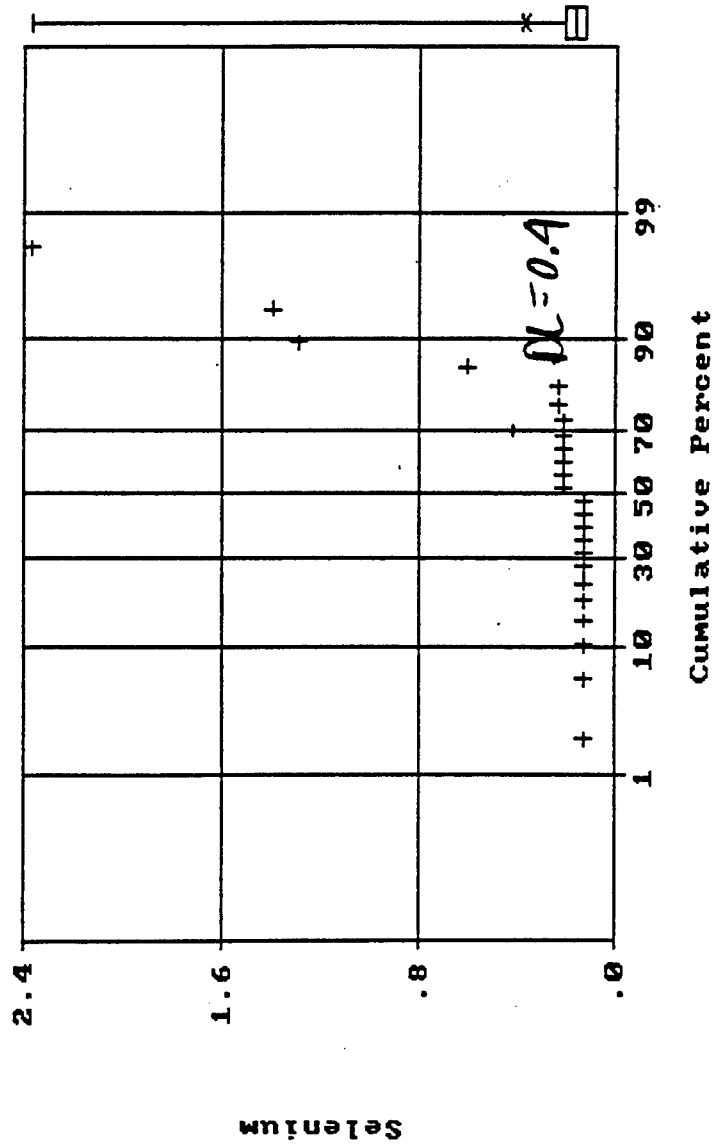
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Ser-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Ser-Se	Uncensored	24	Mean	0.369	Create report	
4	0.125	Ser-Se	Censored		Lognormal mean	0.317	Clear all	
5	0.125	Ser-Se	Detection limit or PQL	-----	Std. devn.	0.546	Histogram	
6	0.125	Ser-Se	Method detection limit	-----	Median	0.1665	5	10
7	0.125	Ser-Se	TOTAL	24	Min.	0.125	20	
8	0.125	Ser-Se	ENTER DATA		Max	2.37	Clear messages	
9	0.125	Ser-Se	Distribution Decision				Calculate UCL	
10	0.125	Ser-Se	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.125	Ser-Se	Lognormal distribution?		Normal distribution?		Normal	
12	0.125	Ser-Se	r-squared is: 0.678		r-squared is: 0.491		Neither	
13	0.125	Ser-Se	Recommendations:				Sample size	
14	0.208	Ser-Se	Reject lognormal distribution.					
15	0.208	Ser-Se	W value is 0.6775. This is less than the tabled value of 0.916					
16	0.208	Ser-Se	Reject normal distribution.					
17	0.208	Ser-Se	W value is 0.5076. This is less than the tabled value of 0.916					
18	0.208	Ser-Se	Upper Confidence Limit (UCL)					
19	0.208	Ser-Se						
20	0.2245	Ser-Se						
21	0.2245	Ser-Se						
22	0.6	Ser-Se						
23	1.29	Ser-Se						
24	1.39	Ser-Se						
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Normal Probability Plot for Selenium
Data file: ser-all.dat

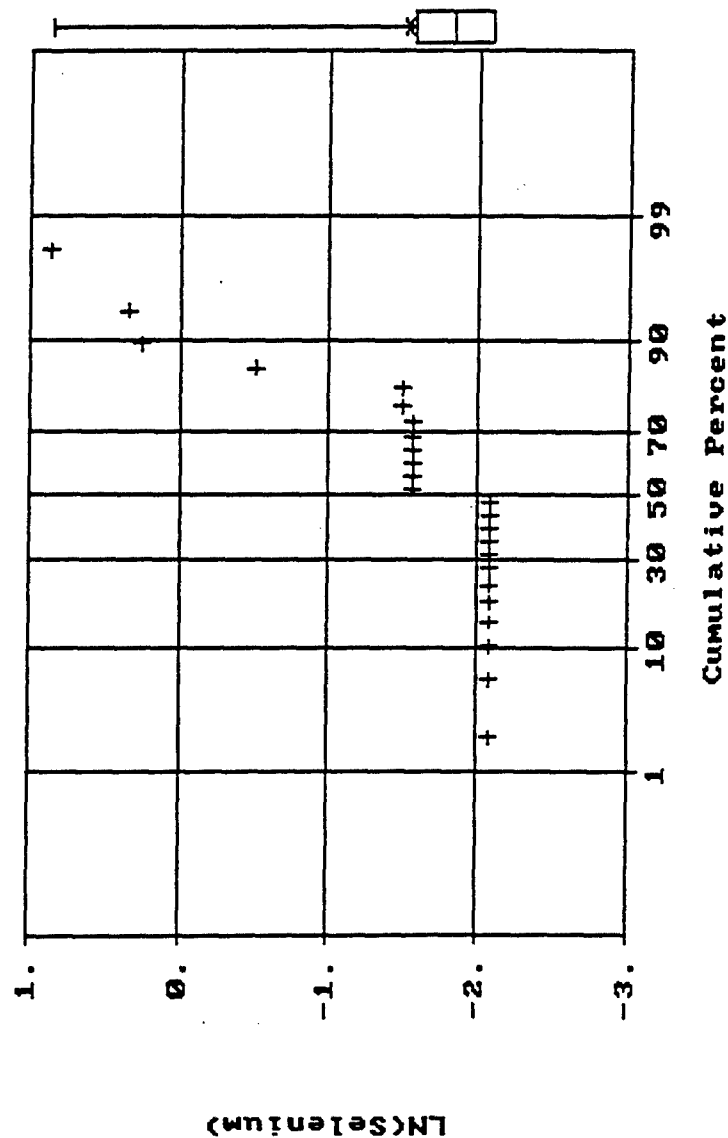
S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	.369
Variance:	.298
Std. Dev:	.546
% C.V. :	148.151
Skewness:	2.637
Kurtosis:	9.131
Minimum :	.125
25th % :	.125
Median :	.167
75th % :	.208
Maximum :	2.370



ALL DETAILS

Normal Probability Plot for LN(Selenium)
Data file: ser-all.dat



S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	-1.518
Variance:	.741
Std. Dev:	.861
% C.V. :	56.707
Skewness:	1.690
Kurtosis:	4.618
Minimum :	-2.079
25th % :	-2.079
Median :	-1.825
75th % :	-1.570
Maximum :	.863

Background data analysis

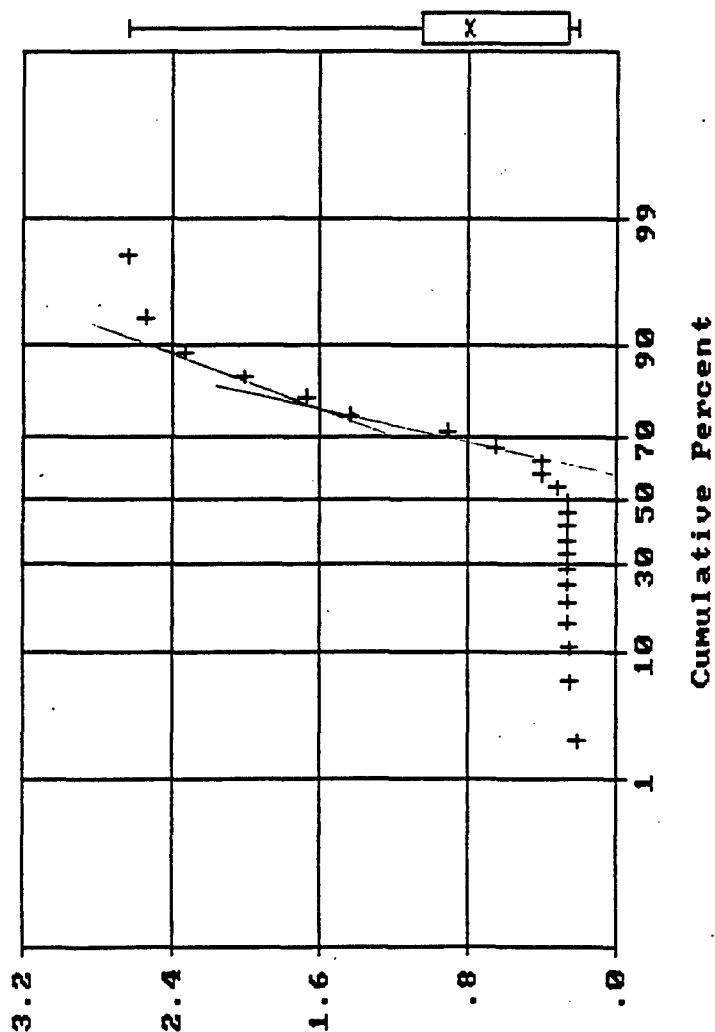
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.2	Ser-Ag	Number of samples		Uncensored values		Sort data	
3	0.25	Ser-Ag	Uncensored	23	Mean	0.797	Create report	
4	0.25	Ser-Ag	Censored		Lognormal mean	0.773	Clear all	
5	0.2605	Ser-Ag	Detection limit or PQL		Std. devn.	0.838	Histogram	
6	0.2605	Ser-Ag	Method detection limit		Median	0.2605	5 10 20	
7	0.2605	Ser-Ag	TOTAL	23	Min.	0.2	Clear messages	
8	0.2605	Ser-Ag	ENTER DATA		Max.	2.63	Calculate UCL	
9	0.2605	Ser-Ag	Distribution Decision				Lognormal	
10	0.2605	Ser-Ag	Probability plot method		W test	D'Agostino's test	Normal	
11	0.2605	Ser-Ag	Lognormal distribution?		Normal distribution?		Neither	
12	0.2605	Ser-Ag	r-squared is: 0.783		r-squared is: 0.706		Sample size	
13	0.2605	Ser-Ag	Recommendations:					
14	0.322	Ser-Ag	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.4015	Ser-Ag	Upper Confidence Limit (UCL)					
16	0.4015	Ser-Ag						
17	0.654	Ser-Ag						
18	0.912	Ser-Ag						
19	1.44	Ser-Ag						
20	1.6732	Ser-Ag						
21	2	Ser-Ag						
22	2.33	Ser-Ag						
23	2.53	Ser-Ag						
24	2.63	Ser-Ag						
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Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.2	Ser-Ag	Number of samples		Uncensored values		Sort data	
3	0.25	Ser-Ag	Uncensored	23	Mean	0.797	Create report	
4	0.25	Ser-Ag	Censored		Lognormal mean	0.773	Clear all	
5	0.2605	Ser-Ag	Detection limit or PQL		Std. devn.	0.838	Histogram	
6	0.2605	Ser-Ag	Method detection limit		Median	0.2605	5	10
7	0.2605	Ser-Ag	TOTAL	23	Min.	0.2	20	
8	0.2605	Ser-Ag	ENTER DATA		Max	2.63		
9	0.2605	Ser-Ag	Distribution Decision					
10	0.2605	Ser-Ag	Probability plot method		W test	D'Agostino's test		
11	0.2605	Ser-Ag	Lognormal distribution?		Normal distribution?			
12	0.2605	Ser-Ag	r-squared is: 0.783		r-squared is: 0.706			
13	0.2605	Ser-Ag	Recommendations:					
14	0.322	Ser-Ag	Reject lognormal distribution.					
15	0.4015	Ser-Ag	W value is 0.7679. This is less than the tabled value of 0.914					
16	0.4015	Ser-Ag	Reject normal distribution.					
17	0.654	Ser-Ag	W value is 0.6966. This is less than the tabled value of 0.914					
18	0.912	Ser-Ag	Upper Confidence Limit (UCL)					
19	1.44	Ser-Ag						
20	1.6732	Ser-Ag						
21	2	Ser-Ag						
22	2.33	Ser-Ag						
23	2.53	Ser-Ag						
24	2.63	Ser-Ag						
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Calculate UCL
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 Sample size

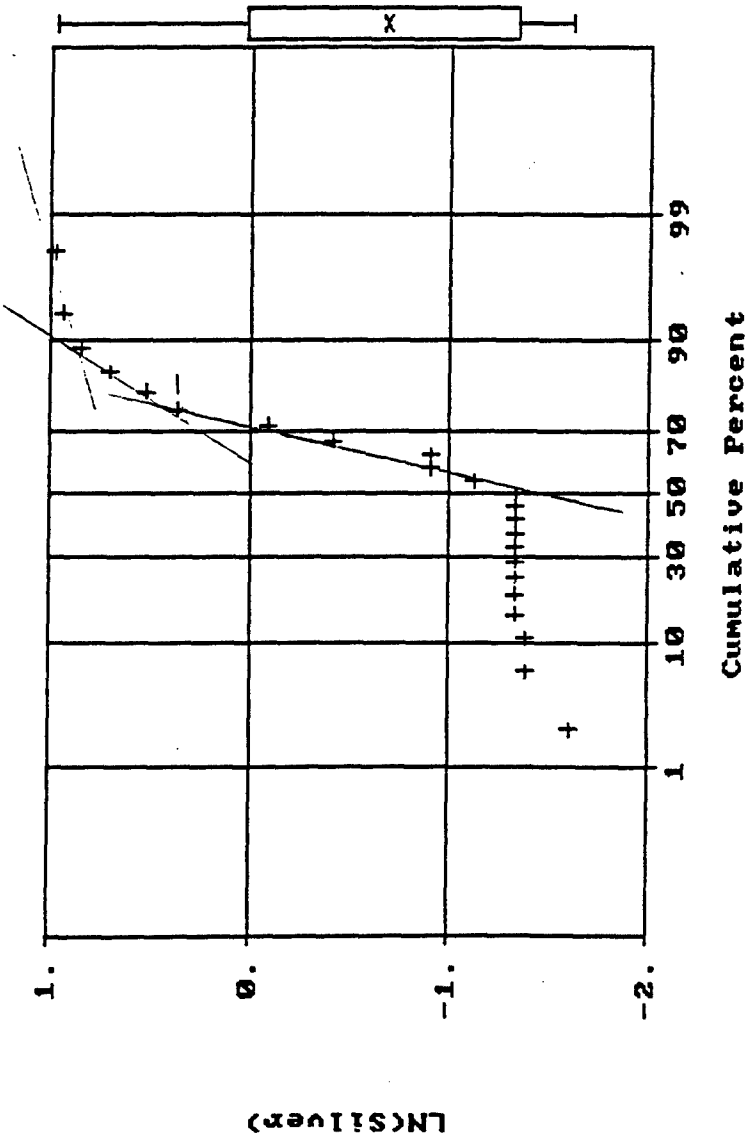
Normal Probability Plot for Silver
Data file: ser-all.dat



S t a t i s t i c s

N Total :	46
N Miss :	23
N Used :	23
Mean :	.797
Variance:	.703
Std. Dev:	.838
% C.V. :	105.133
Skewness:	1.220
Kurtosis:	2.870
Minimum :	.200
25th % :	.261
Median :	.261
75th % :	1.044
Maximum :	2.630

Normal Probability Plot for LN(Silver)
Data file: ser-all.dat



Statistics

N Total :	46
N Miss :	23
N Used :	23
Mean :	-.680
Variance :	.845
Std. Dev. :	.919
% C.V. :	135.130
Skewness :	.812
Kurtosis :	1.958
Minimum :	-1.609
25th % :	-1.345
Median :	-1.345
75th % :	.022
Maximum :	.967

$e^{0.35} = 1.42$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Ser-T1	Number of samples		Uncensored values		Sort data	
3	0.081	Ser-T1	Uncensored	10	Mean	4.484	Create report	
4	0.081	Ser-T1	Censored		Lognormal mean	10.898	Clear all	
5	0.081	Ser-T1	Detection limit or PQL		Std. devn.	7.066	Histogram	
6	0.081	Ser-T1	Method detection limit		Median	0.081	5 10 20	
7	0.081	Ser-T1	TOTAL	10	Min.	0.081		
8	2.5	Ser-T1	ENTER DATA		Max.	17.15		
9	7.35	Ser-T1	Distribution Decision					
10	17.15	Ser-T1	Probability plot method		W test	D'Agostino's test		
11	17.15	Ser-T1	Lognormal distribution?		Normal distribution?			
12			r-squared is: 0.735		r-squared is: 0.676			
13			Recommendations:				Clear messages	
14			Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15							Calculate UCL	
16							Lognormal	
17							Normal	
18							Neither	
19							Sample size	
20								
21			Upper Confidence Limit (UCL)					
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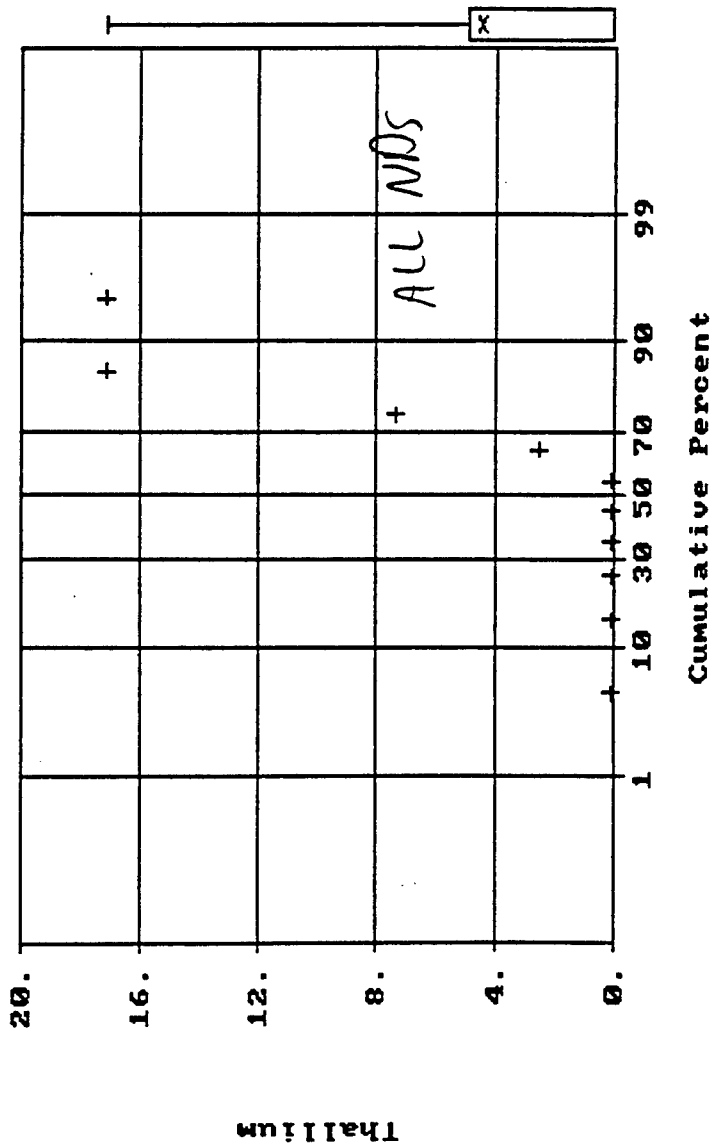
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Ser-TI					Sort data	
3	0.081	Ser-TI					Create report	
4	0.081	Ser-TI					Clear all	
5	0.081	Ser-TI					Histogram	
6	0.081	Ser-TI					5 10 20	
7	0.081	Ser-TI					Clear messages	
8	2.5	Ser-TI					Calculate UCL	
9	7.35	Ser-TI					Lognormal	
10	17.15	Ser-TI					Normal	
11	17.15	Ser-TI					Neither	
12							Sample size	
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Normal Probability Plot for Thallium
Data file: ser-all.dat

S t a t i s t i c s

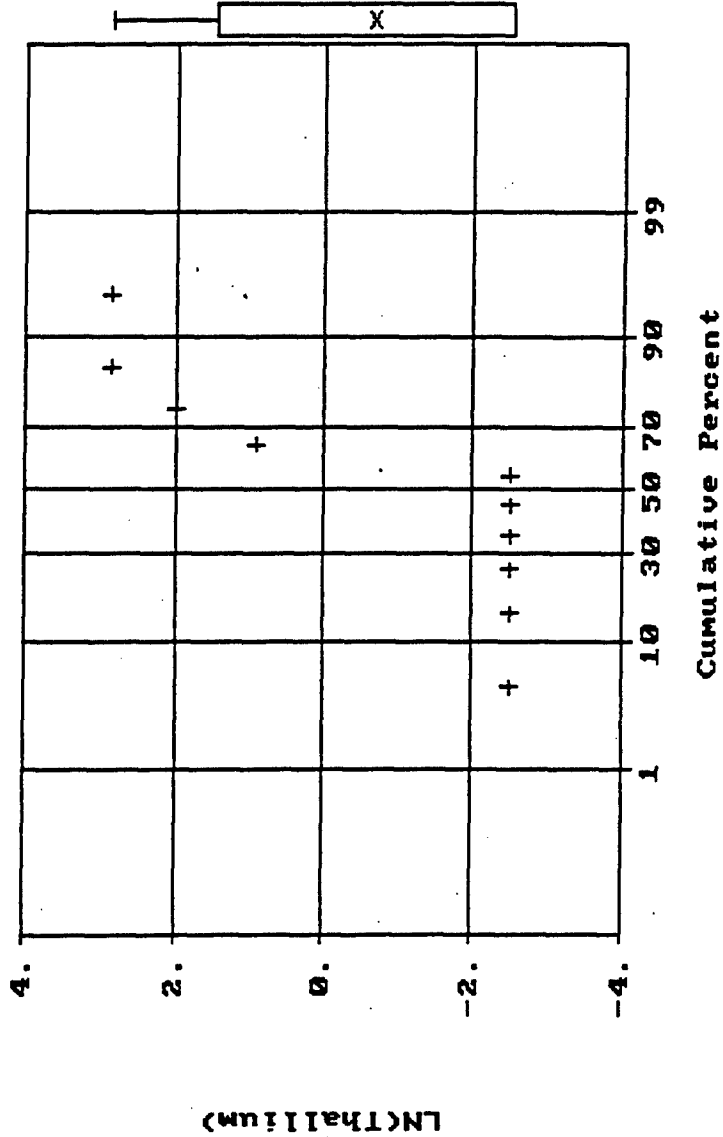
N Total :	46
N Miss :	36
N Used :	10
Mean :	4.464
Variance:	49.924
Std. Dev:	7.066
% C.V. :	158.296
Skewness:	1.194
Kurtosis:	2.680
Minimum :	.081
25th % :	.081
Median :	.081
75th % :	4.925
Maximum :	17.150



Normal Probability Plot for LN(Thallium)
Data file: ser-all.dat

Statistics

N Total :	46
N Miss :	36
N Used :	10
Mean :	-.648
Variance:	6.074
Std. Dev:	2.465
% C.U. :	380.051
Skewness:	.535
Kurtosis:	1.420
Minimum :	-2.513
25th % :	-2.513
Median :	-2.513
75th % :	1.455
Maximum :	2.842



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.8	Ser-V	Number of samples		Uncensored values		Sort data	
3	25.3348	Ser-V	Uncensored	24	Mean	52.591	Create report	
4	25.5165	Ser-V	Censored		Lognormal mean	53.552	Clear all	
5	26.978	Ser-V	Detection limit or PQL		Std. devn.	24.949	Histogram	
6	27.7	Ser-V	Method detection limit		Median	47.5	5	10
7	33.7	Ser-V	TOTAL	24	Min.	11.8	20	
8	34.2308	Ser-V	ENTER DATA		Max.	99.4		
9	35.9	Ser-V	Distribution Decision					
10	36	Ser-V	Probability plot method		W test	D'Agostino's test		
11	36.1624	Ser-V	Lognormal distribution?		Normal distribution?			
12	40.2418	Ser-V	r-squared is: 0.948		r-squared is: 0.953			
13	43.4	Ser-V	Recommendations					
14	51.6	Ser-V	Use lognormal distribution.					
15	56.02	Ser-V						
16	59.1	Ser-V						
17	61.4	Ser-V						
18	68.3	Ser-V						
19	69	Ser-V						
20	72.7	Ser-V						
21	81.4	Ser-V	Upper Confidence Limit (UCL)					
22	83.3	Ser-V						
23	84.4	Ser-V						
24	98.6	Ser-V						
25	99.4	Ser-V						
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Calculate UCL
 Lognormal
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 Neither
 Sample size

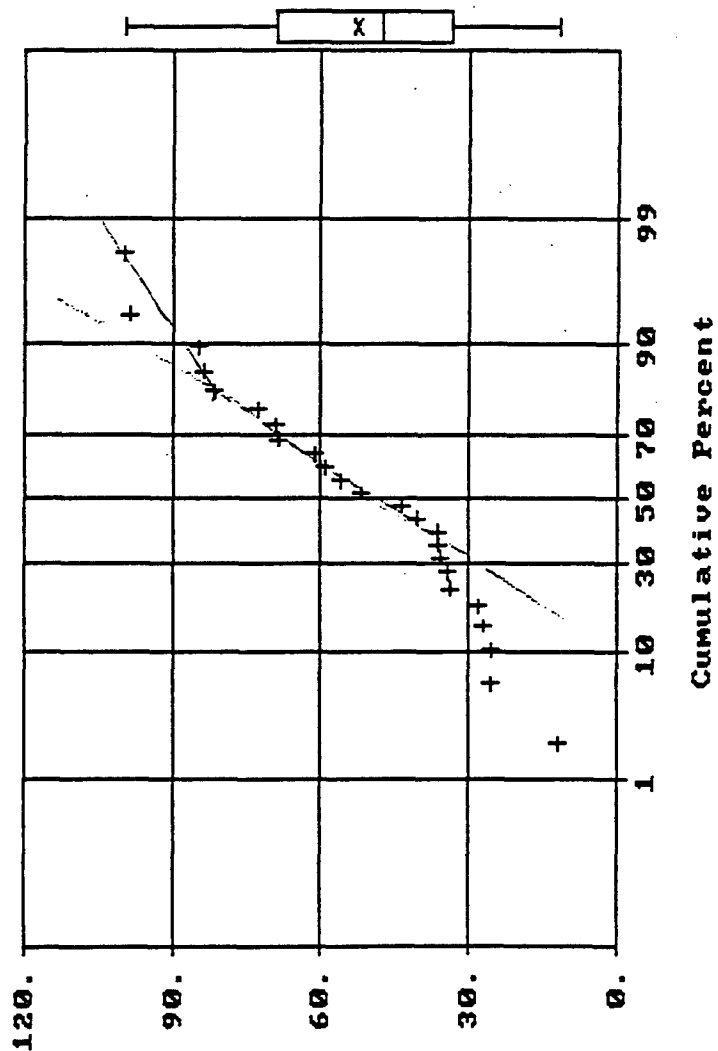
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	11.8	Ser-V	Number of samples		Uncensored values		Sort data	
3	25.3348	Ser-V	Uncensored	24	Mean	52.591	Create report	
4	25.5165	Ser-V	Censored		Lognormal mean	53.552	Clear all	
5	26.978	Ser-V	Detection limit or PQL		Std. devn.	24.949	Histogram	
6	27.7	Ser-V	Method detection limit		Median	47.5	5	10
7	33.7	Ser-V	TOTAL	24	Min.	11.8	20	
8	34.2308	Ser-V	ENTER DATA		Max	99.4	Clear messages	
9	35.9	Ser-V	Distribution Decision				Calculate UCL	
10	36	Ser-V	Probability plot method		W test	D'Agostino's test	Lognormal	
11	36.1624	Ser-V	Lognormal distribution?		Normal distribution?		Normal	
12	40.2418	Ser-V	r-squared is: 0.948		r-squared is: 0.953		Neither	
13	43.4	Ser-V	Recommendations:				Sample size	
14	51.6	Ser-V	Assume lognormal distribution.					
15	56.02	Ser-V	W value is 0.9477. This exceeds the tabled value of 0.916					
16	59.1	Ser-V						
17	61.4	Ser-V						
18	68.3	Ser-V						
19	69	Ser-V						
20	72.7	Ser-V						
21	81.4	Ser-V						
22	83.3	Ser-V						
23	84.4	Ser-V						
24	98.6	Ser-V						
25	99.4	Ser-V						
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Normal Probability Plot for Vanadium
Data file: ser-all.dat

S t a t i s t i c s

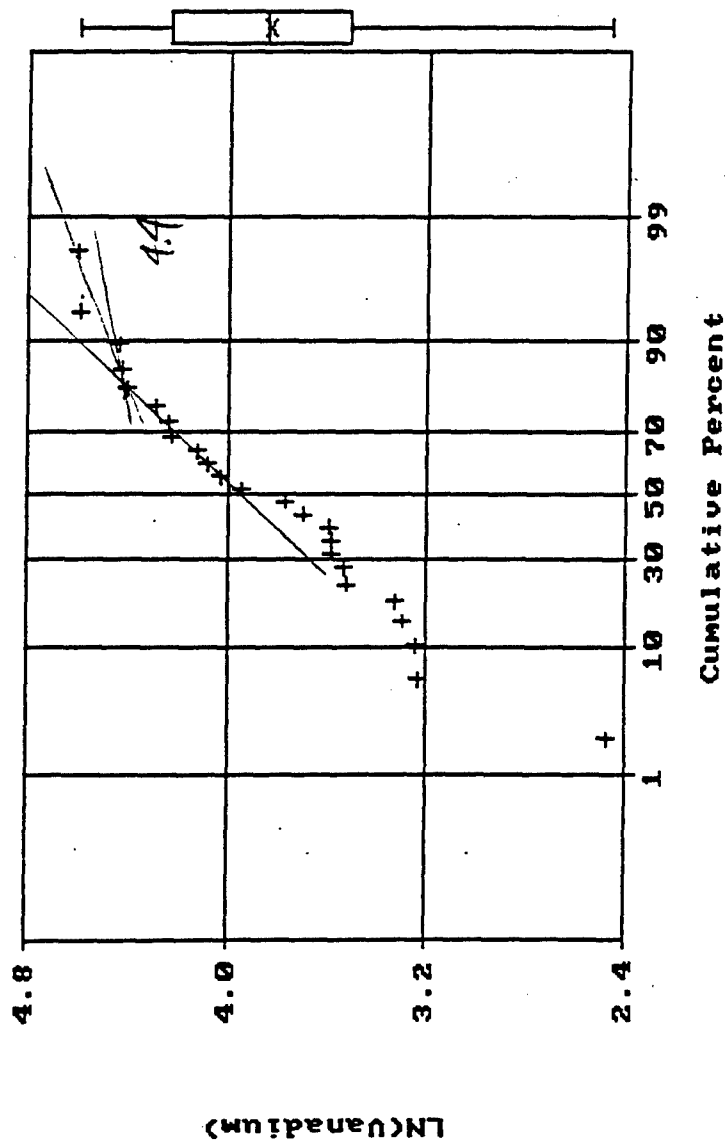
N Total :	46
N Miss :	22
N Used :	24
Mean :	52.591
Variance:	622.432
Std. Dev:	24.949
% C.V. :	47.439
Skewness:	.380
Kurtosis:	2.033
Minimum :	11.800
25th % :	33.700
Median :	47.500
75th % :	69.000
Maximum :	99.400



Normal Probability Plot for LN(Vanadium)
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	22
N Used :	24
Mean :	3.841
Variance :	.279
Std. Dev :	.529
% C.V. :	13.763
Skewness :	-.530
Kurtosis :	2.960
Minimum :	2.468
25th % :	3.517
Median :	3.857
75th % :	4.234
Maximum :	4.599



4.4281

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	6.64	Ser-Zn	Number of samples		Uncensored values		Sort data	
3	17.7	Ser-Zn	Uncensored	31	Mean	185.430	Create report	
4	18	Ser-Zn	Censored		Lognormal mean	144.481	Clear all	
5	20.7523	Ser-Zn	Detection limit or PQL		Std. devn.	301.086	Histogram	
6	33.8	Ser-Zn	Method detection limit		Median	80.487	5 10 20	
7	40.8	Ser-Zn	TOTAL	31	Min.	6.64		
8	42.5584	Ser-Zn	ENTER DATA		Max.	1450		
9	49.2769	Ser-Zn	Distribution Decision					
10	50.641	Ser-Zn	Probability plot method		W test	D'Agostino's test		
11	51.7	Ser-Zn	Lognormal distribution?		Normal distribution?			
12	52.4	Ser-Zn	r-squared is: 0.923		r-squared is: 0.471			
13	53.5	Ser-Zn	Recommendations:				Clear messages	
14	53.7	Ser-Zn	Use lognormal distribution.					
15	53.7	Ser-Zn						
16	59.1	Ser-Zn					Calculate UCL	
17	60.487	Ser-Zn					Lognormal	
18	67.2	Ser-Zn					Normal	
19	75.4	Ser-Zn					Neither	
20	75.9	Ser-Zn					Sample size	
21	95.1641	Ser-Zn	Upper Confidence Limit (UCL)					
22	101	Ser-Zn						
23	105	Ser-Zn						
24	106.9196	Ser-Zn						
25	110	Ser-Zn						
26	123	Ser-Zn						
27	160	Ser-Zn						
28	180	Ser-Zn						
29	301	Ser-Zn						
30	590	Ser-Zn						
31	923	Ser-Zn						
32	1450	Ser-Zn						
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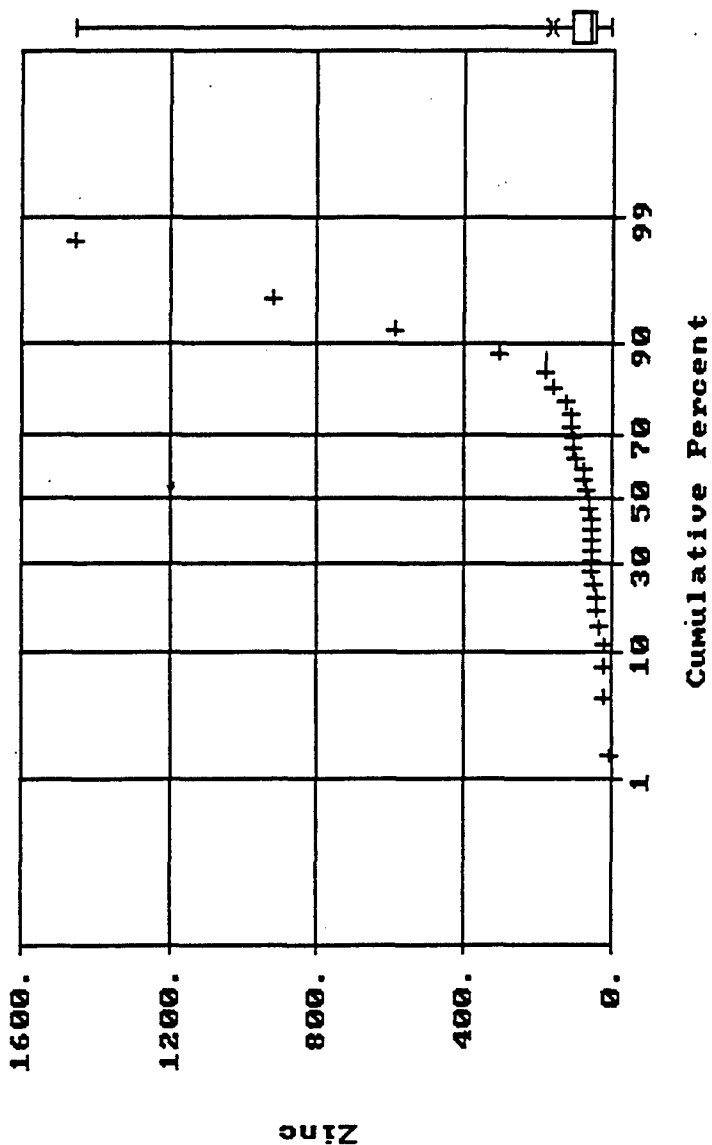
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	6.64	Ser-Zn	Number of samples				Sort data	
3	17.7	Ser-Zn	Uncensored values				Create report	
4	18	Ser-Zn	Uncensored	31	Mean	165.430	Clear all	
5	20.7523	Ser-Zn	Censored		Lognormal mean	144.461	Histogram	
6	33.8	Ser-Zn	Detection limit or PQL		Std. devn.	301.086	5 10 20	
7	40.8	Ser-Zn	Method detection limit		Median	60.487	Clear messages	
8	42.5584	Ser-Zn	TOTAL	31	Min.	6.64	Calculate UCL	
9	49.2769	Ser-Zn	ENTER DATA		Max	1450	Lognormal	
10	50.641	Ser-Zn	Distribution Decision				Normal	
11	51.7	Ser-Zn	Probability plot method		W test	D'Agostino's test	Neither	
12	52.4	Ser-Zn	Lognormal distribution?		Normal distribution?		Sample size	
13	53.5	Ser-Zn	r-squared is: 0.923		r-squared is: 0.471			
14	53.7	Ser-Zn	Recommendations:					
15	53.7	Ser-Zn	Assume lognormal distribution.					
16	59.1	Ser-Zn	W value is 0.9338. This exceeds the tabled value of 0.929					
17	60.487	Ser-Zn						
18	67.2	Ser-Zn						
19	75.4	Ser-Zn						
20	75.9	Ser-Zn						
21	95.1641	Ser-Zn	Upper Confidence Limit (UCL)					
22	101	Ser-Zn						
23	105	Ser-Zn						
24	106.9196	Ser-Zn						
25	110	Ser-Zn						
26	123	Ser-Zn						
27	160	Ser-Zn						
28	180	Ser-Zn						
29	301	Ser-Zn						
30	590	Ser-Zn						
31	923	Ser-Zn						
32	1450	Ser-Zn						
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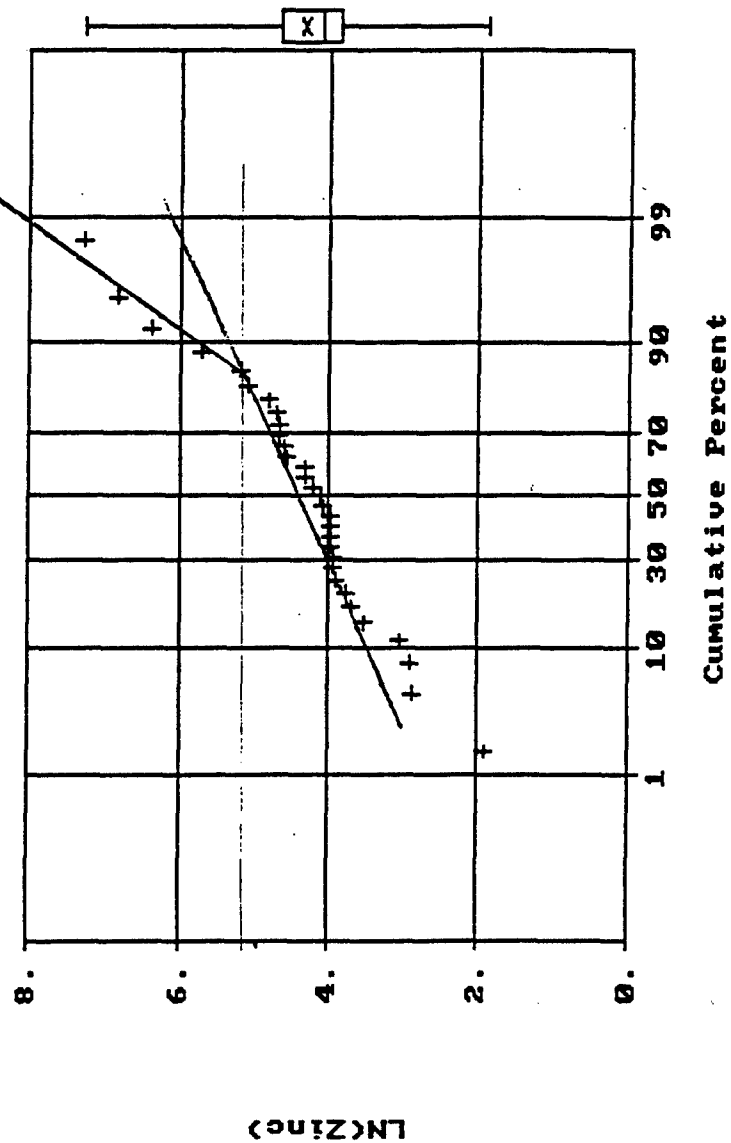
Normal Probability Plot for Zinc
Data file: ser-all.dat

S t a t i s t i c s

N Total :	46
N Miss :	15
N Used :	31
Mean :	165.430
Variance :	90652.500
Std. Dev. :	301.086
% C.V. :	182.001
Skewness :	3.225
Kurtosis :	12.950
Minimum :	6.640
25th % :	47.597
Median :	60.487
75th % :	107.690
Maximum :	1450.000



Normal Probability Plot for LN(Zinc)
Data file: ser-all.dat



Statistics

N Total :	46
N Miss :	15
N Used :	31
Mean :	4.350
Variance:	1.246
Std. Dev:	1.116
% C.V. :	25.656
Skewness:	.668
Kurtosis:	4.046
Minimum :	1.893
25th % :	3.861
Median :	4.102
75th % :	4.679
Maximum :	7.279

$e^{5.15} \approx 172$

Fill

A-327

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	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.8546	Fill-AI	Number of samples		Uncensored values		Sort data	
3	1700	Fill-AI	Uncensored	226	Mean	12514.604	Create report	
4	2100	Fill-AI	Censored		Lognormal mean	14682.753	Clear all	
5	2473.05	Fill-AI	Detection limit or PQL	-----	Std. devn.	7592.090	Histogram	
6	2509.795	Fill-AI	Method detection limit	-----	Median	11000	5	10
7	3737.529	Fill-AI	TOTAL	226	Min.	0.8546		20
8	3760	Fill-AI	ENTER DATA		Max	55665.773		
9	3800	Fill-AI	Distribution Decision					
10	3871.734	Fill-AI	Probability plot method		W test	D'Agostino's test		
11	4180	Fill-AI	Lognormal distribution?		Normal distribution?			
12	4300	Fill-AI	r-squared is: 0.602		r-squared is: 0.819			
13	4327.7311	Fill-AI	Recommendations					
14	4700	Fill-AI	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	4796.636	Fill-AI						
16	4890	Fill-AI						
17	4908.7003	Fill-AI						
18	4950	Fill-AI						
19	5200	Fill-AI						
20	5280	Fill-AI						
21	5300	Fill-AI						
22	5462.2742	Fill-AI	Upper Confidence Limit (UCL)					
23	5500	Fill-AI						
24	5537.1901	Fill-AI						
25	5600	Fill-AI						
26	5700	Fill-AI						
27	5730	Fill-AI						
28	5800	Fill-AI						
29	5967.5676	Fill-AI						
30	6100	Fill-AI						
31	6100	Fill-AI						
32	6100	Fill-AI						
33	6177.8846	Fill-AI						
34	6200	Fill-AI						
35	6300	Fill-AI						
36	6311.399	Fill-AI						
37	6325.125	Fill-AI						
38	6400	Fill-AI						
39	6500	Fill-AI						
40	6663.837	Fill-AI						
41	6900	Fill-AI						
42	6995.4165	Fill-AI						
43	7000	Fill-AI						
44	7025.074	Fill-AI						
45	7031.4193	Fill-AI						
46	7169.1974	Fill-AI						
47	7300	Fill-AI						
48	7443.53	Fill-AI						
49	7460	Fill-AI						
50	7500	Fill-AI						
51	7500	Fill-AI						
52	7500	Fill-AI						
53	7547.8469	Fill-AI						
54	7610.085	Fill-AI						
55	7700	Fill-AI						
56	7777.7778	Fill-AI						
57	7800	Fill-AI						
58	8000	Fill-AI						
59	8200	Fill-AI						
60	8200	Fill-AI						
61	8329.646	Fill-AI						
62	8453.947	Fill-AI						
63	8482.1429	Fill-AI						
64	8486.867	Fill-AI						
65	8500	Fill-AI						
66	8620	Fill-AI						
67	8666.6667	Fill-AI						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

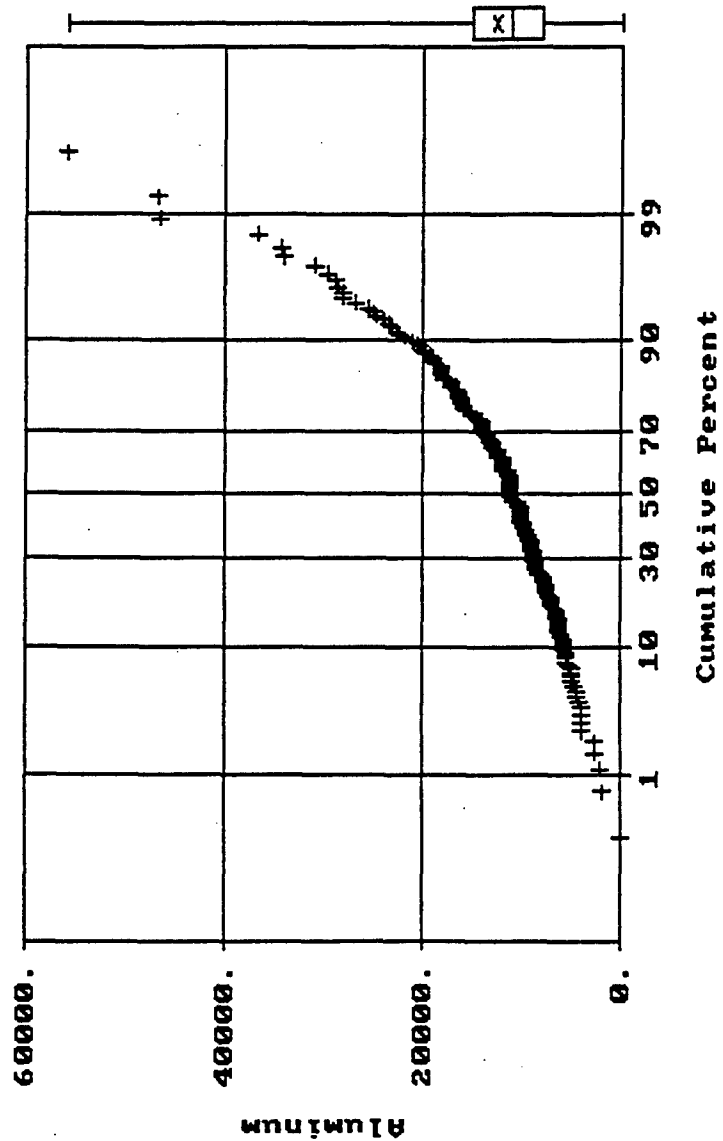
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.8546	Fill-AI	Number of samples		Uncensored values		Sort data	
3	1700	Fill-AI	Uncensored	226	Mean	12514.604	Create report	
4	2100	Fill-AI	Censored		Lognormal mean	14682.753	Clear all	
5	2473.05	Fill-AI	Detection limit or PQL	-----	Std. devn.	7592.090	Histogram	
6	2509.795	Fill-AI	Method detection limit	-----	Median	11000	5	10
7	3737.529	Fill-AI	TOTAL	226	Min.	0.8546	20	
8	3760	Fill-AI	ENTER DATA		Max	55665.773		
9	3800	Fill-AI	Distribution Decision					
10	3871.734	Fill-AI	Probability plot method		W test	D'Agostino's test		
11	4180	Fill-AI	Lognormal distribution?		Normal distribution?			
12	4300	Fill-AI	r-squared is: 0.602		r-squared is: 0.819			
13	4327.7311	Fill-AI	Recommendations:					
14	4700	Fill-AI	Reject lognormal distribution.					
15	4796.636	Fill-AI	Y value is -39.6846. This lies outside the table values of 1.5215 and -2.3686					
16	4890	Fill-AI	Reject normal distribution.					
17	4908.7003	Fill-AI	Y value is -18.7391. This lies outside the table values of 1.5215 and -2.3686					
18	4950	Fill-AI	Upper Confidence Limit (UCL)					
19	5200	Fill-AI						
20	5280	Fill-AI						
21	5300	Fill-AI						
22	5462.2742	Fill-AI						
23	5500	Fill-AI						
24	5537.1901	Fill-AI						
25	5600	Fill-AI						
26	5700	Fill-AI						
27	5730	Fill-AI						
28	5800	Fill-AI						
29	5967.5676	Fill-AI						
30	6100	Fill-AI						
31	6100	Fill-AI						
32	6100	Fill-AI						
33	6177.8846	Fill-AI						
34	6200	Fill-AI						
35	6300	Fill-AI						
36	6311.399	Fill-AI						
37	6325.125	Fill-AI						
38	6400	Fill-AI						
39	6500	Fill-AI						
40	6663.837	Fill-AI						
41	6900	Fill-AI						
42	6995.4165	Fill-AI						
43	7000	Fill-AI						
44	7025.074	Fill-AI						
45	7031.4193	Fill-AI						
46	7169.1974	Fill-AI						
47	7300	Fill-AI						
48	7443.53	Fill-AI						
49	7460	Fill-AI						
50	7500	Fill-AI						
51	7500	Fill-AI						
52	7500	Fill-AI						
53	7547.8469	Fill-AI						
54	7610.085	Fill-AI						
55	7700	Fill-AI						
56	7777.7778	Fill-AI						
57	7800	Fill-AI						
58	8000	Fill-AI						
59	8200	Fill-AI						
60	8200	Fill-AI						
61	8329.646	Fill-AI						
62	8453.947	Fill-AI						
63	8482.1429	Fill-AI						
64	8486.867	Fill-AI						
65	8500	Fill-AI						
66	8620	Fill-AI						
67	8666.6667	Fill-AI						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

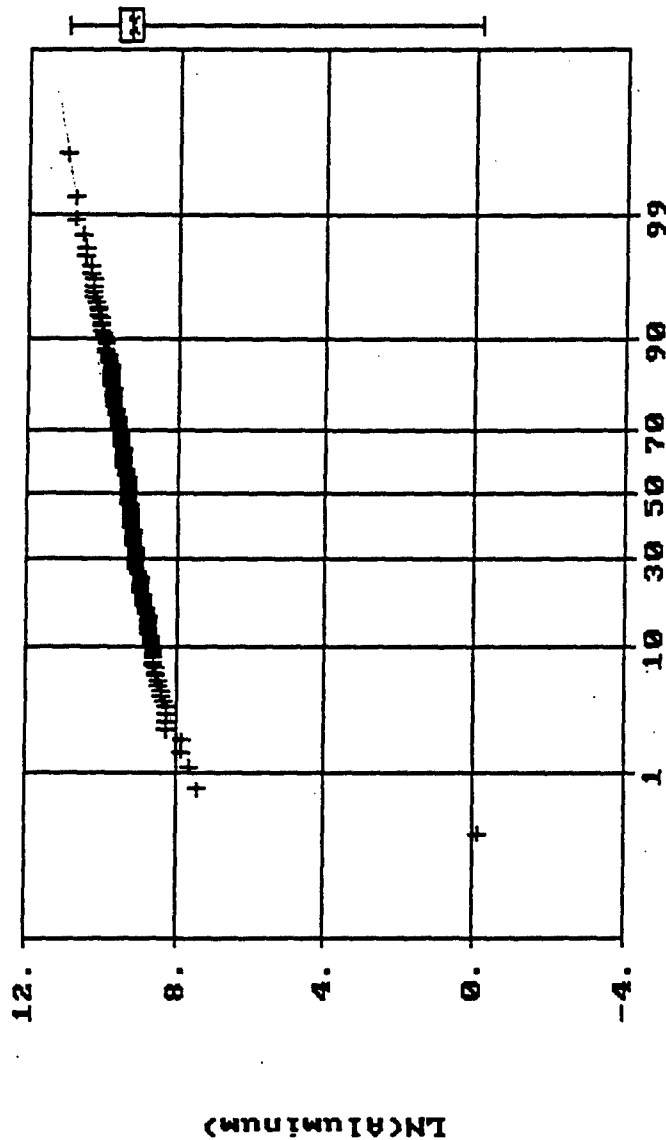
Normal Probability Plot for Aluminum
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	145
N Used :	226
Mean :	12514.600
Variance :	57639830.000
Std. Dev :	7592.090
% C.V. :	60.666
Skewness :	2.207
Kurtosis :	10.422
Minimum :	.855
25th % :	7900.000
Median :	11000.000
75th % :	15000.000
Maximum :	55665.770



Normal Probability Plot for LN(Aluminum)
Data file: fil-all.dat



Statistics

N Total :	371
N Miss :	145
N Used :	226
Mean :	9.251
Variance :	.686
Std. Dev. :	.828
% C.V. :	8.954
Skewness :	-6.488
Kurtosis :	75.006
Minimum :	-.157
25th % :	8.975
Median :	9.306
75th % :	9.616
Maximum :	10.927

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Fill-A	Number of samples		Uncensored values		Sort data	
3	0.25	Fill-A	Uncensored	213	Mean	3.128	Create report	
4	0.25	Fill-A	Censored		Lognormal mean	3.236	Clear all	
5	0.41	Fill-A	Detection limit or PQL	-----	Std. devn.	2.525	Histogram	
6	0.53	Fill-A	Method detection limit	-----	Median	2.86	5 10 20	
7	0.6	Fill-A	TOTAL	213	Min.	0.125		
8	0.6	Fill-A	ENTER DATA		Max	22		
9	0.6	Fill-A	Distribution Decision					
10	0.6	Fill-A	Probability plot method		W test	D'Agostino's test		
11	0.6	Fill-A	Lognormal distribution?		Normal distribution?			
12	0.625	Fill-A	r-squared is: 0.955		r-squared is: 0.746			
13	0.625	Fill-A	Recommendations:					
14	0.625	Fill-A	Use lognormal distribution.					
15	0.625	Fill-A						
16	0.625	Fill-A						
17	0.625	Fill-A						
18	0.625	Fill-A						
19	0.625	Fill-A						
20	0.625	Fill-A						
21	0.625	Fill-A						
22	0.625	Fill-A	Upper Confidence Limit (UCL)					
23	0.6359	Fill-A						
24	0.637	Fill-A						
25	0.8018	Fill-A						
26	1.135	Fill-A						
27	1.14	Fill-A						
28	1.2	Fill-A						
29	1.25	Fill-A						
30	1.25	Fill-A						
31	1.25	Fill-A						
32	1.25	Fill-A						
33	1.25	Fill-A						
34	1.25	Fill-A						
35	1.25	Fill-A						
36	1.25	Fill-A						
37	1.25	Fill-A						
38	1.25	Fill-A						
39	1.25	Fill-A						
40	1.25	Fill-A						
41	1.25	Fill-A						
42	1.25	Fill-A						
43	1.25	Fill-A						
44	1.25	Fill-A						
45	1.25	Fill-A						
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49	1.25	Fill-A						
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52	1.25	Fill-A						
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61	1.25	Fill-A						
62	1.25	Fill-A						
63	1.25	Fill-A						
64	1.25	Fill-A						
65	1.25	Fill-A						
66	1.25	Fill-A						
67	1.3	Fill-A						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

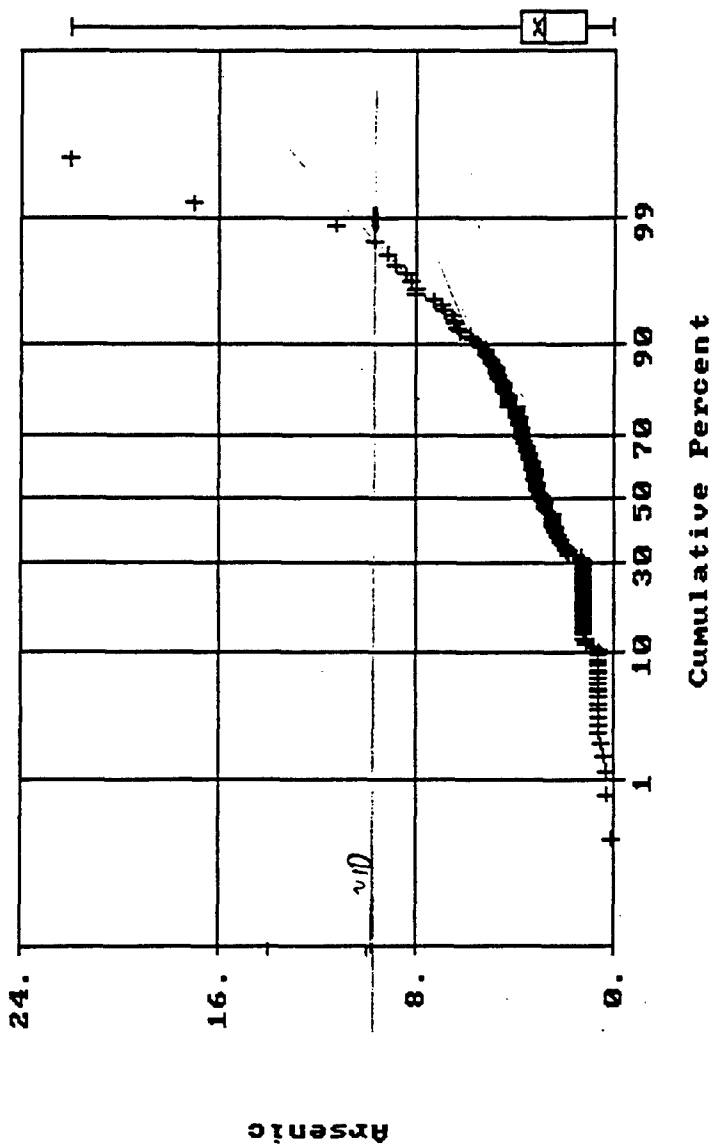
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Fill-As	Number of samples		Uncensored values		Sort data	
3	0.25	Fill-As	Uncensored	213	Mean	3.128	Create report	
4	0.25	Fill-As	Censored		Lognormal mean	3.236	Clear all	
5	0.41	Fill-As	Detection limit or PQL		Std. devn.	2.525	Histogram	
6	0.53	Fill-As	Method detection limit		Median	2.86	5 10 20	
7	0.6	Fill-As	TOTAL	213	Min.	0.125		
8	0.6	Fill-As	ENTER DATA		Max.	22		
9	0.6	Fill-As	Distribution Decision					
10	0.6	Fill-As	Probability plot method		W test	D'Agostino's test		
11	0.6	Fill-As	Lognormal distribution?		Normal distribution?			
12	0.625	Fill-As	r-squared is: 0.955		r-squared is: 0.746			
13	0.625	Fill-As	Recommendations:					
14	0.625	Fill-As	Reject lognormal distribution.					
15	0.625	Fill-As	Y value is -4.0078. This lies outside the tabled values of 1.5087 and -2.3798					
16	0.625	Fill-As	Reject normal distribution.					
17	0.625	Fill-As	Y value is -23.7919. This lies outside the tabled values of 1.5087 and -2.3798					
18	0.625	Fill-As	Upper Confidence Limit (UCL)					
19	0.625	Fill-As						
20	0.625	Fill-As						
21	0.625	Fill-As						
22	0.625	Fill-As						
23	0.6359	Fill-As						
24	0.637	Fill-As						
25	0.8018	Fill-As						
26	1.135	Fill-As						
27	1.14	Fill-As						
28	1.2	Fill-As						
29	1.25	Fill-As						
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61	1.25	Fill-As						
62	1.25	Fill-As						
63	1.25	Fill-As						
64	1.25	Fill-As						
65	1.25	Fill-As						
66	1.25	Fill-As						
67	1.3	Fill-As						

Clear messages
 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

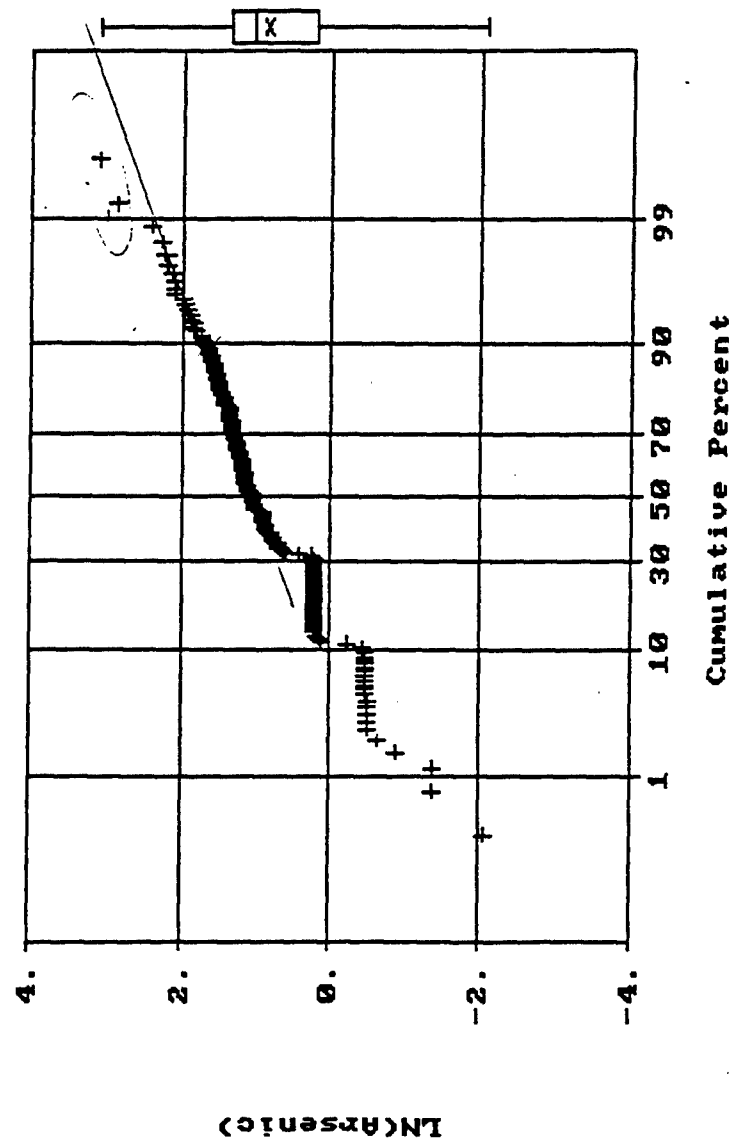
Normal Probability Plot for Arsenic
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	158
N Used :	213
Mean :	3.128
Variance:	6.377
Std. Dev:	2.525
% C.V. :	80.735
Skewness:	3.190
Kurtosis:	20.720
Minimum :	.125
25th % :	1.250
Median :	2.860
75th % :	3.869
Maximum :	22.000



Normal Probability Plot for LN(Arsenic)
Data file: fil-all.dat



Statistics

N Total :	371
N Miss :	158
N Used :	213
Mean :	.867
Variance:	.614
Std. Dev:	.784
% C.V. :	90.348
Skewness:	-.546
Kurtosis:	3.665
Minimum :	-2.079
25th % :	.223
Median :	1.051
75th % :	1.353
Maximum :	3.091

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Pasta values	
2	0.0022	Fill-Ba	Number of samples		Uncensored values		Sort data	
3	7.91	Fill-Ba	Uncensored	226	Mean	186.594	Create report	
4	11.7078	Fill-Ba	Censored		Lognormal mean	222.071	Clear all	
5	13.173	Fill-Ba	Detection limit or PQL		Std. devn.	258.712	Histogram	
6	19.6	Fill-Ba	Method detection limit		Median	111.69295	5	10
7	19.9	Fill-Ba	TOTAL	226	Min.	0.0022	20	
8	20.3	Fill-Ba	ENTER DATA		Max.	2510		
9	21.9715	Fill-Ba	Distribution Decision					
10	24.6849	Fill-Ba	Probability plot method		W test	D'Agostino's test		
11	24.95	Fill-Ba	Lognormal distribution?		Normal distribution?			
12	26	Fill-Ba	r-squared is: 0.759		r-squared is: 0.504			
13	26.553	Fill-Ba	Recommendations:					
14	27.3114	Fill-Ba	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	27.3913	Fill-Ba						
16	30	Fill-Ba						
17	31.1	Fill-Ba						
18	34.1	Fill-Ba						
19	35	Fill-Ba						
20	35.122	Fill-Ba						
21	40.1	Fill-Ba	Upper Confidence Limit (UCL)					
22	41.3	Fill-Ba						
23	42	Fill-Ba						
24	43.893	Fill-Ba						
25	44.407	Fill-Ba						
26	47	Fill-Ba						
27	47.5	Fill-Ba						
28	47.5	Fill-Ba						
29	48.2	Fill-Ba						
30	48.7603	Fill-Ba						
31	48.8746	Fill-Ba						
32	49.1	Fill-Ba						
33	49.714	Fill-Ba						
34	50	Fill-Ba						
35	50.1	Fill-Ba						
36	50.7	Fill-Ba						
37	50.8	Fill-Ba						
38	51.5	Fill-Ba						
39	53	Fill-Ba						
40	57.134	Fill-Ba						
41	58.3	Fill-Ba						
42	59.944	Fill-Ba						
43	60.2	Fill-Ba						
44	60.5	Fill-Ba						
45	62.281	Fill-Ba						
46	62.95	Fill-Ba						
47	63.6	Fill-Ba						
48	65	Fill-Ba						
49	65.4	Fill-Ba						
50	65.5	Fill-Ba						
51	66.1	Fill-Ba						
52	68.9	Fill-Ba						
53	70	Fill-Ba						
54	71.7208	Fill-Ba						
55	72.306	Fill-Ba						
56	72.5	Fill-Ba						
57	73.029	Fill-Ba						
58	74.9	Fill-Ba						
59	75.192	Fill-Ba						
60	75.2	Fill-Ba						
61	77	Fill-Ba						
62	77.398	Fill-Ba						
63	77.759	Fill-Ba						
64	78.8462	Fill-Ba						
65	79.972	Fill-Ba						
66	80.1	Fill-Ba						
67	83	Fill-Ba						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

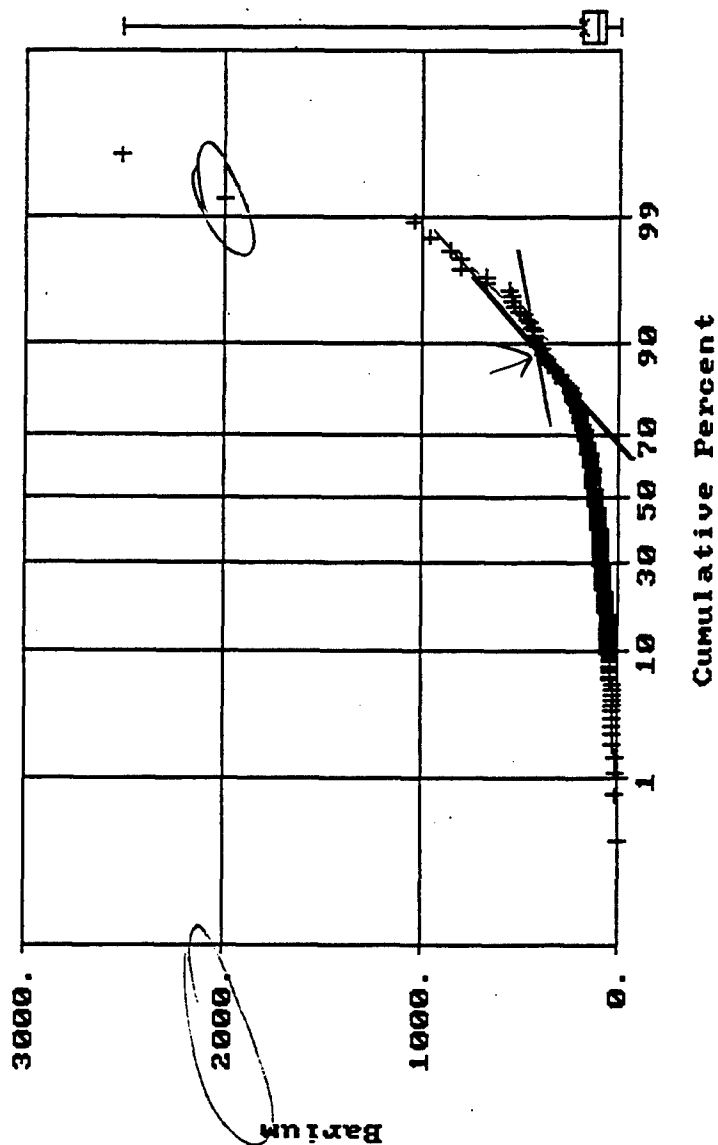
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	0.0022	Fill-Ba	Number of samples		Uncensored values		Sort data	
3	7.91	Fill-Ba	Uncensored	226	Mean	186.594	Create report	
4	11.7078	Fill-Ba	Censored		Lognormal mean	222.071	Clear all	
5	13.173	Fill-Ba	Detection limit or PQL		Std. devn.	258.712	Histogram	
6	19.6	Fill-Ba	Method detection limit		Median	111.69295	5	10
7	19.9	Fill-Ba	TOTAL	226	Min.	0.0022	20	
8	20.3	Fill-Ba	ENTER DATA		Max.	2510		
9	21.9715	Fill-Ba	Distribution Decision					
10	24.6849	Fill-Ba	Probability plot method		W test	D'Agostino's test		
11	24.95	Fill-Ba	Lognormal distribution?		Normal distribution?			
12	26	Fill-Ba	r-squared is: 0.759		r-squared is: 0.504		Clear messages	
13	26.553	Fill-Ba	Recommendations:					
14	27.3114	Fill-Ba	Reject lognormal distribution.					
15	27.3913	Fill-Ba	Y value is -25.1341. This lies outside the tabled values of 1.5215 and -2.3686					
16	30	Fill-Ba	Reject normal distribution.					
17	31.1	Fill-Ba	Y value is -50.6605. This lies outside the tabled values of 1.5215 and -2.3686					
18	34.1	Fill-Ba	Upper Confidence Limit (UCL)					
19	35	Fill-Ba						
20	35.122	Fill-Ba						
21	40.1	Fill-Ba						
22	41.3	Fill-Ba						
23	42	Fill-Ba						
24	43.893	Fill-Ba						
25	44.407	Fill-Ba						
26	47	Fill-Ba						
27	47.5	Fill-Ba						
28	47.5	Fill-Ba						
29	48.2	Fill-Ba						
30	48.7603	Fill-Ba						
31	48.8746	Fill-Ba						
32	49.1	Fill-Ba						
33	49.714	Fill-Ba						
34	50	Fill-Ba						
35	50.1	Fill-Ba						
36	50.7	Fill-Ba						
37	50.8	Fill-Ba						
38	51.5	Fill-Ba						
39	53	Fill-Ba						
40	57.134	Fill-Ba						
41	58.3	Fill-Ba						
42	59.944	Fill-Ba						
43	60.2	Fill-Ba						
44	60.5	Fill-Ba						
45	62.281	Fill-Ba						
46	62.95	Fill-Ba						
47	63.6	Fill-Ba						
48	65	Fill-Ba						
49	65.4	Fill-Ba						
50	65.5	Fill-Ba						
51	66.1	Fill-Ba						
52	68.9	Fill-Ba						
53	70	Fill-Ba						
54	71.7208	Fill-Ba						
55	72.306	Fill-Ba						
56	72.5	Fill-Ba						
57	73.029	Fill-Ba						
58	74.9	Fill-Ba						
59	75.192	Fill-Ba						
60	75.2	Fill-Ba						
61	77	Fill-Ba						
62	77.398	Fill-Ba						
63	77.759	Fill-Ba						
64	78.8462	Fill-Ba						
65	79.972	Fill-Ba						
66	80.1	Fill-Ba						
67	83	Fill-Ba						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Barium
Data file: fil-all.dat

S t a t i s t i c s

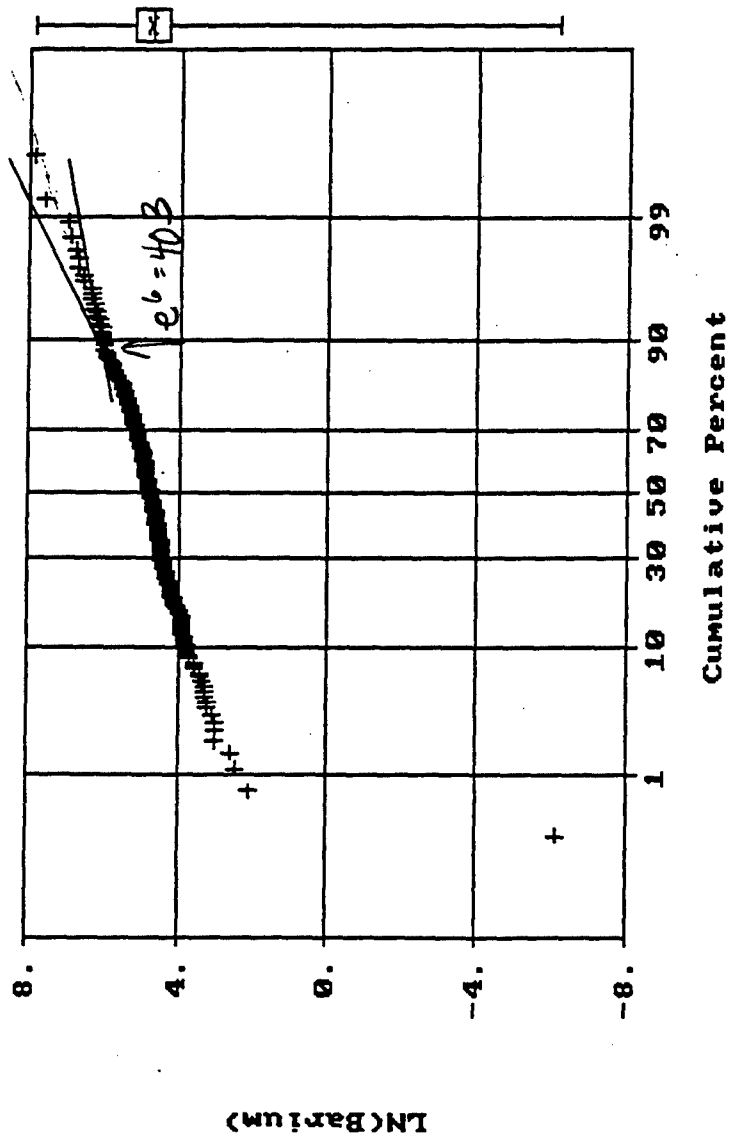
N Total :	371
N Miss :	145
N Used :	226
Mean :	186.594
Variance :	66931.810
Std. Dev :	258.712
% C.V. :	138.649
Skewness :	5.345
Kurtosis :	41.436
Minimum :	.002
25th % :	73.965
Median :	111.693
75th % :	189.249
Maximum :	2510.000



Normal Probability Plot for LN(Barium)
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	145
N Used :	226
Mean :	4.747
Variance:	1.312
Std. Dev:	1.145
% C.V. :	24.126
Skewness:	-3.619
Kurtosis:	37.580
Minimum :	-6.119
25th % :	4.304
Median :	4.716
75th % :	5.243
Maximum :	7.828



	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0189	Fill-Be	Number of samples		Uncensored values		Sort data	
3	0.05	Fill-Be	Uncensored	227	Mean	0.500	Create report	
4	0.134	Fill-Be	Censored		Lognormal mean	0.502	Clear all	
5	0.1461	Fill-Be	Detection limit or PQL	-----	Std. devn.	0.360	Histogram	
6	0.147	Fill-Be	Method detection limit	-----	Median	0.25	5 10 20	
7	0.1488	Fill-Be	TOTAL	227	Min.	0.0189		
8	0.1626	Fill-Be	ENTER DATA		Max	1.57		
9	0.1928	Fill-Be	Distribution Decision					
10	0.1985	Fill-Be	Probability plot method		W test	D'Agostino's test		
11	0.2135	Fill-Be	Lognormal distribution?		Normal distribution?			
12	0.2135	Fill-Be	r-squared is: 0.880		r-squared is: 0.824			
13	0.2135	Fill-Be	Recommendations					
14	0.2135	Fill-Be	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.2135	Fill-Be						
16	0.2135	Fill-Be						
17	0.2135	Fill-Be						
18	0.2135	Fill-Be						
19	0.2135	Fill-Be						
20	0.2135	Fill-Be						
21	0.2135	Fill-Be	Upper Confidence Limit (UCL)					
22	0.2135	Fill-Be						
23	0.2135	Fill-Be						
24	0.2135	Fill-Be						
25	0.2135	Fill-Be						
26	0.2135	Fill-Be						
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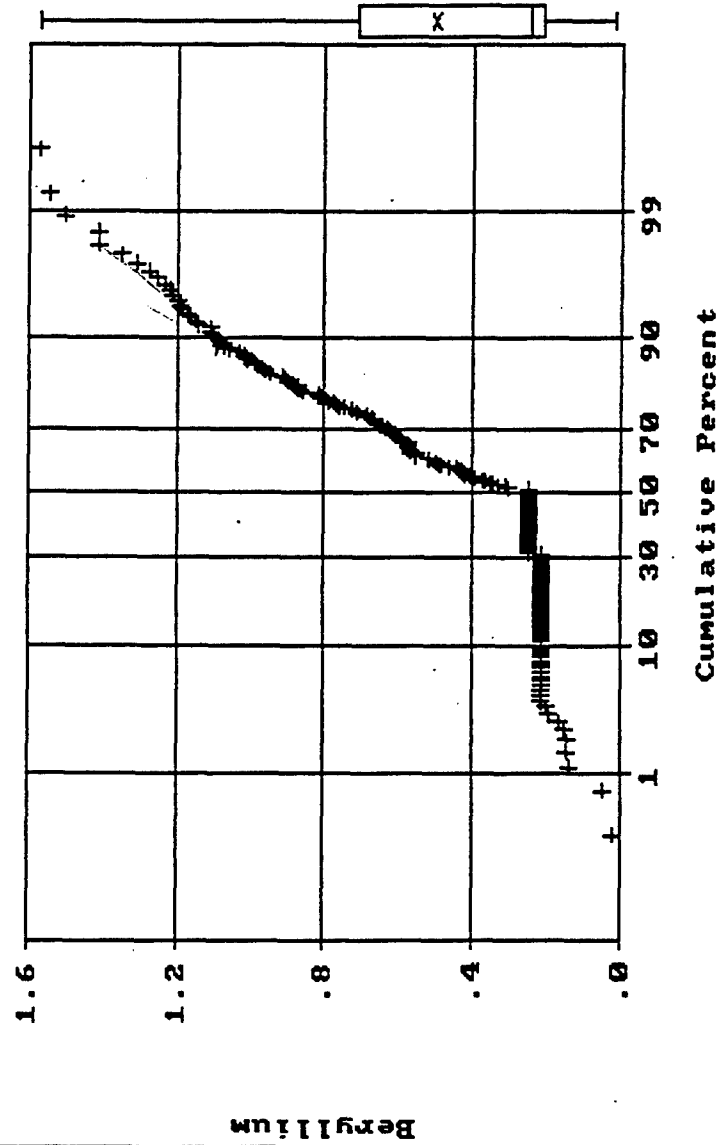
Clear messages

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0189	Fill-Bc	Number of samples		Uncensored values		Sort data	
3	0.05	Fill-Bc	Uncensored	227	Mean	0.500	Create report	
4	0.134	Fill-Bc	Censored		Lognormal mean	0.502	Clear all	
5	0.1461	Fill-Bc	Detection limit or PQL		Std. devn.	0.360	Histogram	
6	0.147	Fill-Bc	Method detection limit		Median	0.25	5 10 20	
7	0.1488	Fill-Bc	TOTAL	227	Min.	0.0189		
8	0.1626	Fill-Bc	ENTER DATA		Max	1.57	Clear messages	
9	0.1928	Fill-Bc	Distribution Decision				Calculate UCL	
10	0.1985	Fill-Bc	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.2135	Fill-Bc	Lognormal distribution?		Normal distribution?		Normal	
12	0.2135	Fill-Bc	r-squared is: 0.880		r-squared is: 0.824		Neither	
13	0.2135	Fill-Bc	Recommendations:					
14	0.2135	Fill-Bc	Reject lognormal distribution.					
15	0.2135	Fill-Bc	Y value is -5.1916. This lies outside the tabled values of 1.5225 and -2.3678					
16	0.2135	Fill-Bc	Reject normal distribution.					
17	0.2135	Fill-Bc	Y value is -10.0868. This lies outside the tabled values of 1.5225 and -2.3678					
18	0.2135	Fill-Bc	Upper Confidence Limit (UCL)					
19	0.2135	Fill-Bc						
20	0.2135	Fill-Bc						
21	0.2135	Fill-Bc						
22	0.2135	Fill-Bc						
23	0.2135	Fill-Bc						
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64	0.2135	Fill-Bc						
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Normal Probability Plot for Beryllium
Data file: fil-all.dat



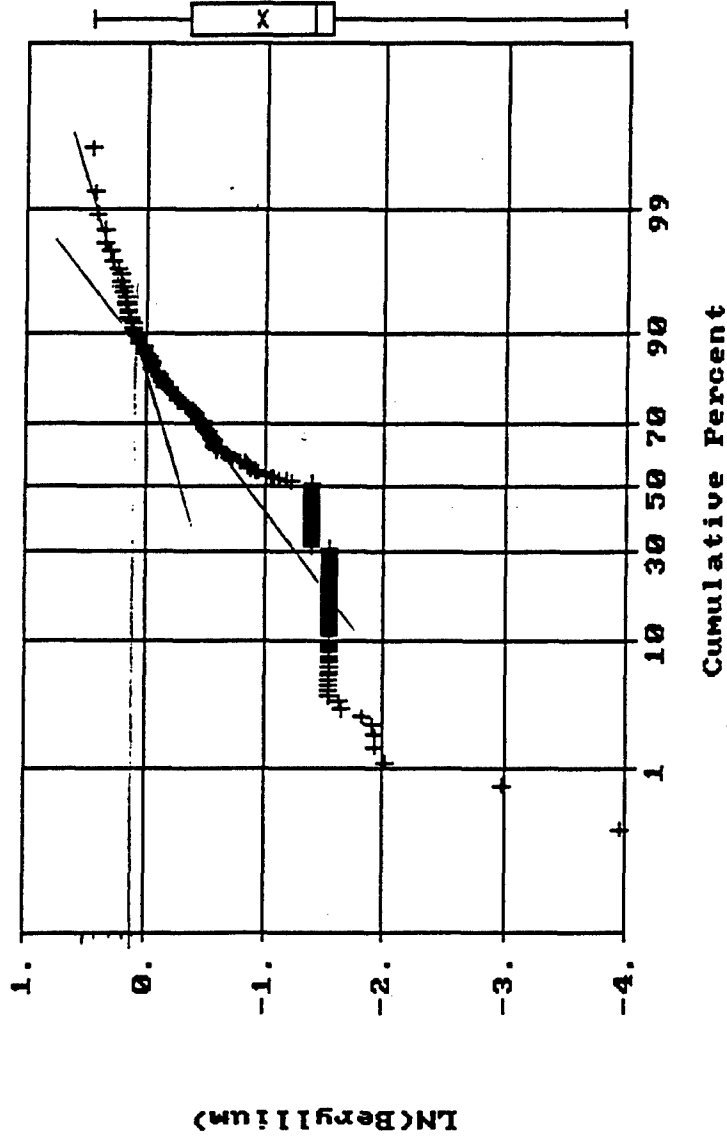
S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	.500
Variance:	.130
Std. Dev:	.360
% C.V. :	72.072
Skewness:	1.051
Kurtosis:	2.988
Minimum :	.019
25th % :	.213
Median :	.250
75th % :	.713
Maximum :	1.570

Normal Probability Plot for LN(Beryllium)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	-.938
Variance :	.498
Std. Dev :	.706
% C.V. :	75.250
Skewness :	.007
Kurtosis :	3.232
Minimum :	-3.969
25th % :	-1.544
Median :	-1.386
75th % :	-.338
Maximum :	.451



$e^{0.12} = 1.13$

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Fill-Cd	Number of samples		Uncensored values		Sort data	
3	0.25	Fill-Cd	Uncensored	227	Mean	1.717	Create report	
4	0.25	Fill-Cd	Censored		Lognormal mean	1.010	Clear all	
5	0.25	Fill-Cd	Detection limit or PQL	-----	Std. devn.	7.134	Histogram	
6	0.25	Fill-Cd	Method detection limit	-----	Median	0.6	5 10 20	
7	0.25	Fill-Cd	TOTAL	227	Min.	0.05		
8	0.25	Fill-Cd	ENTER DATA		Max	87.303		
9	0.25	Fill-Cd	Distribution Decision					
10	0.25	Fill-Cd	Probability plot method		W test	D'Agostino's test		
11	0.25	Fill-Cd	Lognormal distribution?		Normal distribution?			
12	0.25	Fill-Cd	r-squared is: 0.800		r-squared is: 0.166			
13	0.25	Fill-Cd	Recommendations:					
14	0.25	Fill-Cd	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.25	Fill-Cd						
16	0.25	Fill-Cd						
17	0.25	Fill-Cd						
18	0.25	Fill-Cd						
19	0.25	Fill-Cd						
20	0.25	Fill-Cd						
21	0.25	Fill-Cd	Upper Confidence Limit (UCL)					
22	0.25	Fill-Cd						
23	0.25	Fill-Cd						
24	0.25	Fill-Cd						
25	0.25	Fill-Cd						
26	0.25	Fill-Cd						
27	0.25	Fill-Cd						
28	0.25	Fill-Cd						
29	0.25	Fill-Cd						
30	0.25	Fill-Cd						
31	0.25	Fill-Cd						
32	0.25	Fill-Cd						
33	0.25	Fill-Cd						
34	0.2575	Fill-Cd						
35	0.2575	Fill-Cd						
36	0.2575	Fill-Cd						
37	0.2575	Fill-Cd						
38	0.2575	Fill-Cd						
39	0.2575	Fill-Cd						
40	0.2575	Fill-Cd						
41	0.2575	Fill-Cd						
42	0.2575	Fill-Cd						
43	0.2575	Fill-Cd						
44	0.2575	Fill-Cd						
45	0.2575	Fill-Cd						
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47	0.2575	Fill-Cd						
48	0.2575	Fill-Cd						
49	0.2575	Fill-Cd						
50	0.2575	Fill-Cd						
51	0.2575	Fill-Cd						
52	0.2575	Fill-Cd						
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54	0.2575	Fill-Cd						
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56	0.2575	Fill-Cd						
57	0.2575	Fill-Cd						
58	0.2575	Fill-Cd						
59	0.2575	Fill-Cd						
60	0.2575	Fill-Cd						
61	0.2575	Fill-Cd						
62	0.2575	Fill-Cd						
63	0.2575	Fill-Cd						
64	0.2575	Fill-Cd						
65	0.2575	Fill-Cd						
66	0.2575	Fill-Cd						
67	0.2575	Fill-Cd						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

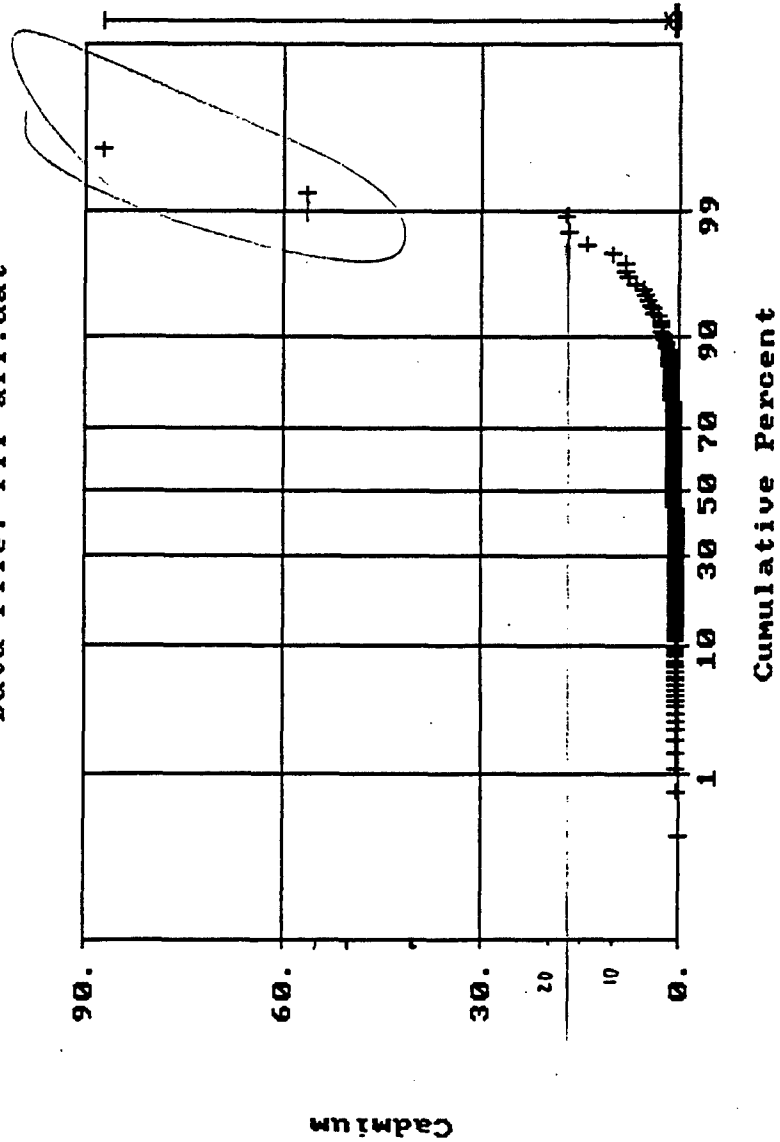
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Fill-Cd	Number of samples		Uncensored values		Sort data	
3	0.25	Fill-Cd	Uncensored	227	Mean	1.717	Create report	
4	0.25	Fill-Cd	Censored		Lognormal mean	1.010	Clear all	
5	0.25	Fill-Cd	Detection limit or POL		Std. devn.	7.134	Histogram	
6	0.25	Fill-Cd	Method detection limit		Median	0.6	5	10
7	0.25	Fill-Cd	TOTAL	227	Min.	0.05	20	
8	0.25	Fill-Cd	ENTER DATA		Max	87.303		
9	0.25	Fill-Cd	Distribution Decision					
10	0.25	Fill-Cd	Probability plot method		W test	D'Agostino's test		
11	0.25	Fill-Cd	Lognormal distribution?		Normal distribution?			
12	0.25	Fill-Cd	r-squared is: 0.800		r-squared is: 0.166			
13	0.25	Fill-Cd	Recommendations					
14	0.25	Fill-Cd	Reject lognormal distribution.					
15	0.25	Fill-Cd	Y value is -18.8946. This lies outside the table values of 1.5225 and -2.3678					
16	0.25	Fill-Cd	Reject normal distribution.					
17	0.25	Fill-Cd	Y value is -97.2536. This lies outside the table values of 1.5225 and -2.3678					
18	0.25	Fill-Cd	Upper Confidence Limit (UCL)					
19	0.25	Fill-Cd						
20	0.25	Fill-Cd						
21	0.25	Fill-Cd						
22	0.25	Fill-Cd						
23	0.25	Fill-Cd						
24	0.25	Fill-Cd						
25	0.25	Fill-Cd						
26	0.25	Fill-Cd						
27	0.25	Fill-Cd						
28	0.25	Fill-Cd						
29	0.25	Fill-Cd						
30	0.25	Fill-Cd						
31	0.25	Fill-Cd						
32	0.25	Fill-Cd						
33	0.25	Fill-Cd						
34	0.2575	Fill-Cd						
35	0.2575	Fill-Cd						
36	0.2575	Fill-Cd						
37	0.2575	Fill-Cd						
38	0.2575	Fill-Cd						
39	0.2575	Fill-Cd						
40	0.2575	Fill-Cd						
41	0.2575	Fill-Cd						
42	0.2575	Fill-Cd						
43	0.2575	Fill-Cd						
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47	0.2575	Fill-Cd						
48	0.2575	Fill-Cd						
49	0.2575	Fill-Cd						
50	0.2575	Fill-Cd						
51	0.2575	Fill-Cd						
52	0.2575	Fill-Cd						
53	0.2575	Fill-Cd						
54	0.2575	Fill-Cd						
55	0.2575	Fill-Cd						
56	0.2575	Fill-Cd						
57	0.2575	Fill-Cd						
58	0.2575	Fill-Cd						
59	0.2575	Fill-Cd						
60	0.2575	Fill-Cd						
61	0.2575	Fill-Cd						
62	0.2575	Fill-Cd						
63	0.2575	Fill-Cd						
64	0.2575	Fill-Cd						
65	0.2575	Fill-Cd						
66	0.2575	Fill-Cd						
67	0.2575	Fill-Cd						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cadmium
Data file: fil-all.dat

S t a t i s t i c s

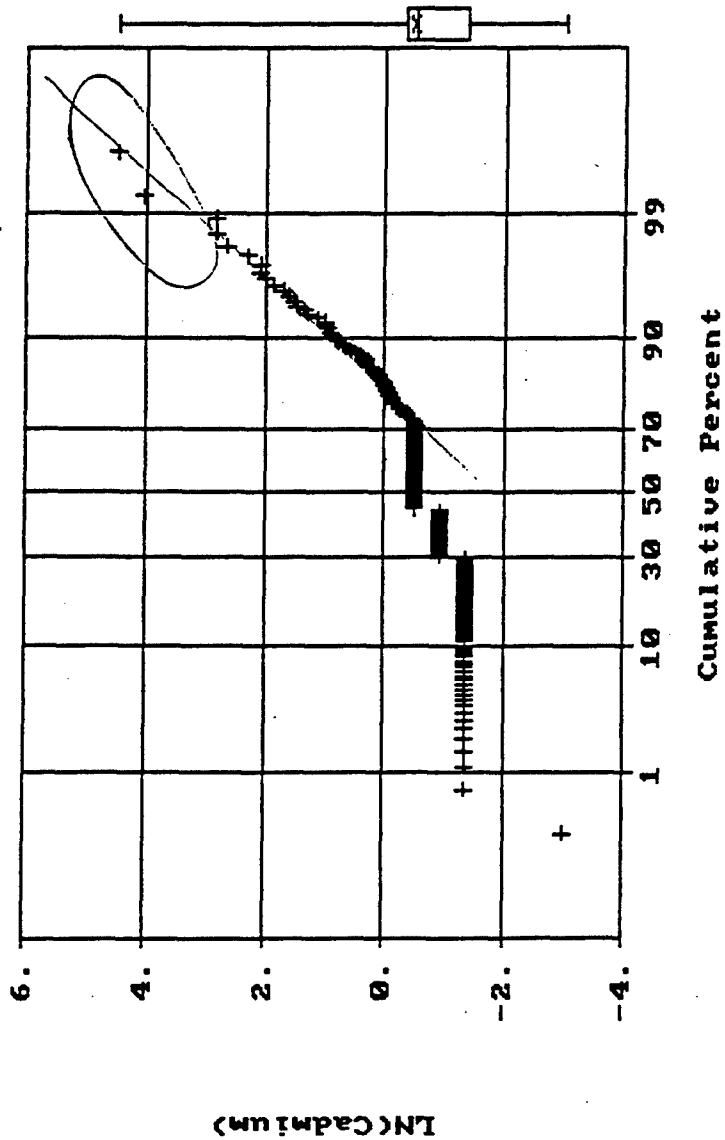
N Total :	371
N Miss :	144
N Used :	227
Mean :	1.717
Variance :	50.899
Std. Dev :	7.134
% C.V. :	415.395
Skewness :	9.781
Kurtosis :	107.681
Minimum :	.050
25th % :	.257
Median :	.600
75th % :	.714
Maximum :	87.303



Normal Probability Plot for LN(Cadmium)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	-.495
Variance:	1.009
Std. Dev:	1.004
% C.V. :	203.008
Skewness:	1.869
Kurtosis:	7.923
Minimum :	-2.996
25th % :	-1.357
Median :	-.511
75th % :	-.337
Maximum :	4.469



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Fill-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Fill-CN	Uncensored	43	Mean	0.373	Creates report	
4	0.125	Fill-CN	Censored		Lognormal mean	0.384	Clear all	
5	0.125	Fill-CN	Detection limit or PQL	-----	Std. devn.	0.159	Histogram	
6	0.125	Fill-CN	Method detection limit	-----	Median	0.4145	5	10
7	0.125	Fill-CN	TOTAL	43	Min.	0.125	20	
8	0.125	Fill-CN	ENTER DATA		Max	0.776		
9	0.125	Fill-CN	Distribution Decision					
10	0.125	Fill-CN	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-CN	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-CN	r-squared is: 0.786		r-squared is: 0.851			
13	0.2818	Fill-CN	Recommendations:					
14	0.4145	Fill-CN	Reject lognormal distribution.					
15	0.4145	Fill-CN	W value is 0.7523. This is less than the tabled value of 0.943					
16	0.4145	Fill-CN	Reject normal distribution.					
17	0.4145	Fill-CN	W value is 0.8458. This is less than the tabled value of 0.943					
18	0.4145	Fill-CN	Upper Confidence Limit (UCL)					
19	0.4145	Fill-CN						
20	0.4145	Fill-CN						
21	0.4145	Fill-CN						
22	0.4145	Fill-CN						
23	0.4145	Fill-CN						
24	0.4145	Fill-CN						
25	0.4145	Fill-CN						
26	0.4145	Fill-CN						
27	0.4145	Fill-CN						
28	0.4145	Fill-CN						
29	0.4145	Fill-CN						
30	0.4145	Fill-CN						
31	0.4145	Fill-CN						
32	0.4145	Fill-CN						
33	0.4145	Fill-CN						
34	0.4432	Fill-CN						
35	0.46	Fill-CN						
36	0.4647	Fill-CN						
37	0.4823	Fill-CN						
38	0.5	Fill-CN						
39	0.5	Fill-CN						
40	0.509	Fill-CN						
41	0.5656	Fill-CN						
42	0.5988	Fill-CN						
43	0.645	Fill-CN						
44	0.776	Fill-CN						
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

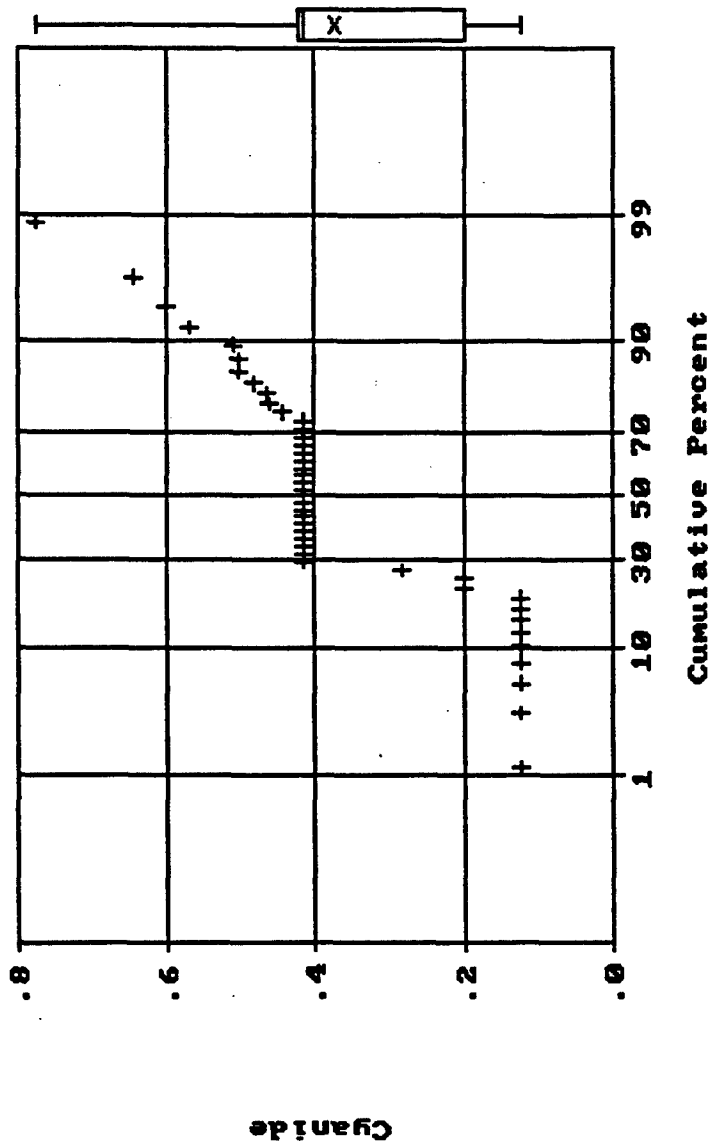
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Fill-CN	Number of samples		Uncensored values		Sort data	
3	0.125	Fill-CN	Uncensored	43	Mean	0.373	Create report	
4	0.125	Fill-CN	Censored		Lognormal mean	0.384	Clear all	
5	0.125	Fill-CN	Detection limit or PQL	-----	Std. devn.	0.159	Histogram	
6	0.125	Fill-CN	Method detection limit	-----	Median	0.4145	5 10 20	
7	0.125	Fill-CN	TOTAL	43	Min.	0.125		
8	0.125	Fill-CN	ENTER DATA		Max	0.776		
9	0.125	Fill-CN	Distribution Decision					
10	0.125	Fill-CN	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-CN	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-CN	r-squared is: 0.766		r-squared is: 0.851			
13	0.2818	Fill-CN	Recommendations:					
14	0.4145	Fill-CN	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.4145	Fill-CN						
16	0.4145	Fill-CN						
17	0.4145	Fill-CN						
18	0.4145	Fill-CN						
19	0.4145	Fill-CN						
20	0.4145	Fill-CN						
21	0.4145	Fill-CN						
22	0.4145	Fill-CN	Upper Confidence Limit (UCL)					
23	0.4145	Fill-CN						
24	0.4145	Fill-CN						
25	0.4145	Fill-CN						
26	0.4145	Fill-CN						
27	0.4145	Fill-CN						
28	0.4145	Fill-CN						
29	0.4145	Fill-CN						
30	0.4145	Fill-CN						
31	0.4145	Fill-CN						
32	0.4145	Fill-CN						
33	0.4145	Fill-CN						
34	0.4432	Fill-CN						
35	0.46	Fill-CN						
36	0.4647	Fill-CN						
37	0.4823	Fill-CN						
38	0.5	Fill-CN						
39	0.5	Fill-CN						
40	0.509	Fill-CN						
41	0.5656	Fill-CN						
42	0.5988	Fill-CN						
43	0.645	Fill-CN						
44	0.776	Fill-CN						
45								
46								
47								
48								
49								
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67								

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cyanide
Data file: fil-all.dat

Statistics

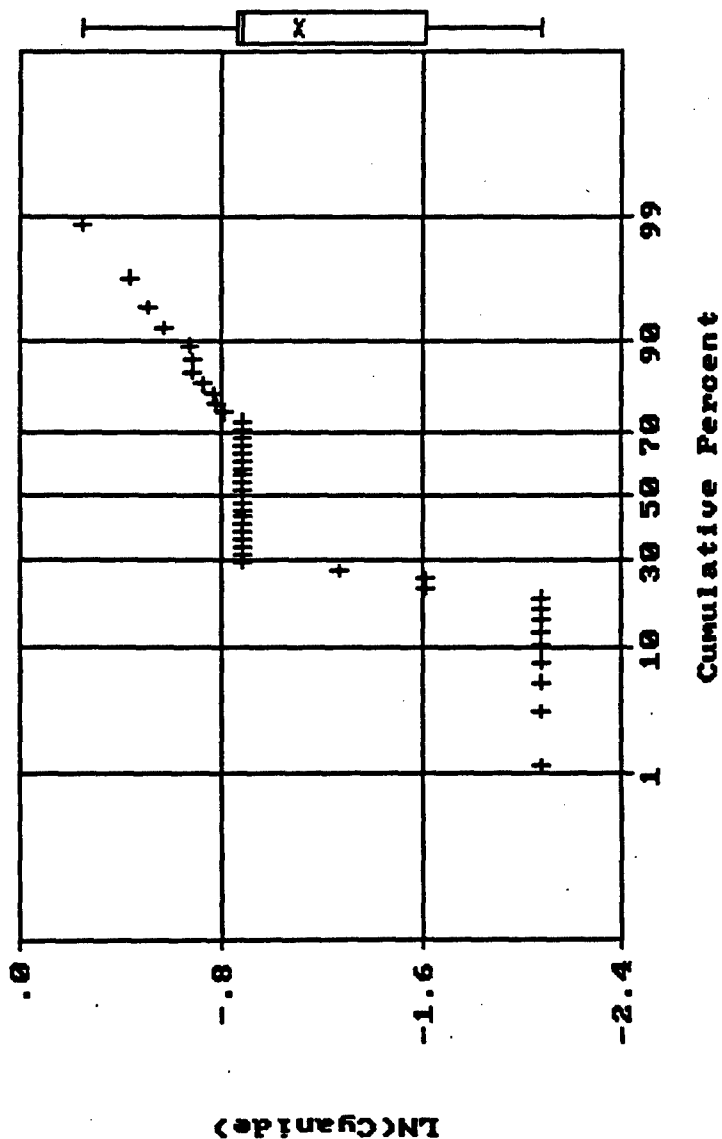
N Total :	371
N Miss :	328
N Used :	43
Mean :	.373
Variance:	.025
Std. Dev:	.159
% C.V. :	42.670
Skewness:	-.198
Kurtosis:	2.770
Minimum :	.125
25th % :	.200
Median :	.414
75th % :	.422
Maximum :	.776



Normal Probability Plot for LN(Cyanide)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	328
N Used :	43
Mean :	-1.110
Variance:	.306
Std. Dev:	.553
% C.V. :	49.853
Skewness:	-.926
Kurtosis:	2.398
Minimum :	-2.079
25th % :	-1.609
Median :	-.881
75th % :	-.864
Maximum :	-.254



	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0211	Fill-Co	Number of samples		Uncensored values		Sort data	
3	0.644	Fill-Co	Uncensored	227	Mean	22.785	Create report	
4	1.25	Fill-Co	Censored		Lognormal mean	24.337	Clear all	
5	1.25	Fill-Co	Detection limit or PQL	-----	Std. devn.	24.934	Histogram	
6	3.2	Fill-Co	Method detection limit	-----	Median	15.2096	5 10 20	
7	3.24	Fill-Co	TOTAL	227	Min.	0.0211		
8	3.3	Fill-Co	ENTER DATA		Max	279		
9	3.4	Fill-Co	Distribution Decision					
10	4.1	Fill-Co	Probability plot method		W test	D'Agostino's test		
11	5.0475	Fill-Co	Lognormal distribution?		Normal distribution?			
12	5.3	Fill-Co	r-squared is: 0.870		r-squared is: 0.563			
13	5.3151	Fill-Co	Recommendations:					
14	5.341	Fill-Co	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	5.48	Fill-Co						
16	6	Fill-Co						
17	6.07	Fill-Co						
18	6.3	Fill-Co						
19	6.445	Fill-Co						
20	6.6	Fill-Co						
21	6.65	Fill-Co						
22	6.676	Fill-Co	Upper Confidence Limit (UCL)					
23	6.83	Fill-Co						
24	6.89	Fill-Co						
25	7.09	Fill-Co						
26	7.094	Fill-Co						
27	7.16	Fill-Co						
28	7.18	Fill-Co						
29	7.355	Fill-Co						
30	7.422	Fill-Co						
31	7.4629	Fill-Co						
32	7.475	Fill-Co						
33	7.797	Fill-Co						
34	7.962	Fill-Co						
35	7.965	Fill-Co						
36	8.0515	Fill-Co						
37	8.25	Fill-Co						
38	8.5938	Fill-Co						
39	8.7	Fill-Co						
40	8.8	Fill-Co						
41	9.0683	Fill-Co						
42	9.09	Fill-Co						
43	9.1	Fill-Co						
44	9.193	Fill-Co						
45	9.2283	Fill-Co						
46	9.24	Fill-Co						
47	9.34	Fill-Co						
48	9.4617	Fill-Co						
49	9.473	Fill-Co						
50	9.493	Fill-Co						
51	9.6	Fill-Co						
52	9.609	Fill-Co						
53	9.708	Fill-Co						
54	9.7205	Fill-Co						
55	9.75	Fill-Co						
56	9.881	Fill-Co						
57	9.99	Fill-Co						
58	10.131	Fill-Co						
59	10.142	Fill-Co						
60	10.235	Fill-Co						
61	10.3	Fill-Co						
62	10.3	Fill-Co						
63	10.3892	Fill-Co						
64	10.393	Fill-Co						
65	10.789	Fill-Co						
66	11	Fill-Co						
67	11	Fill-Co						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

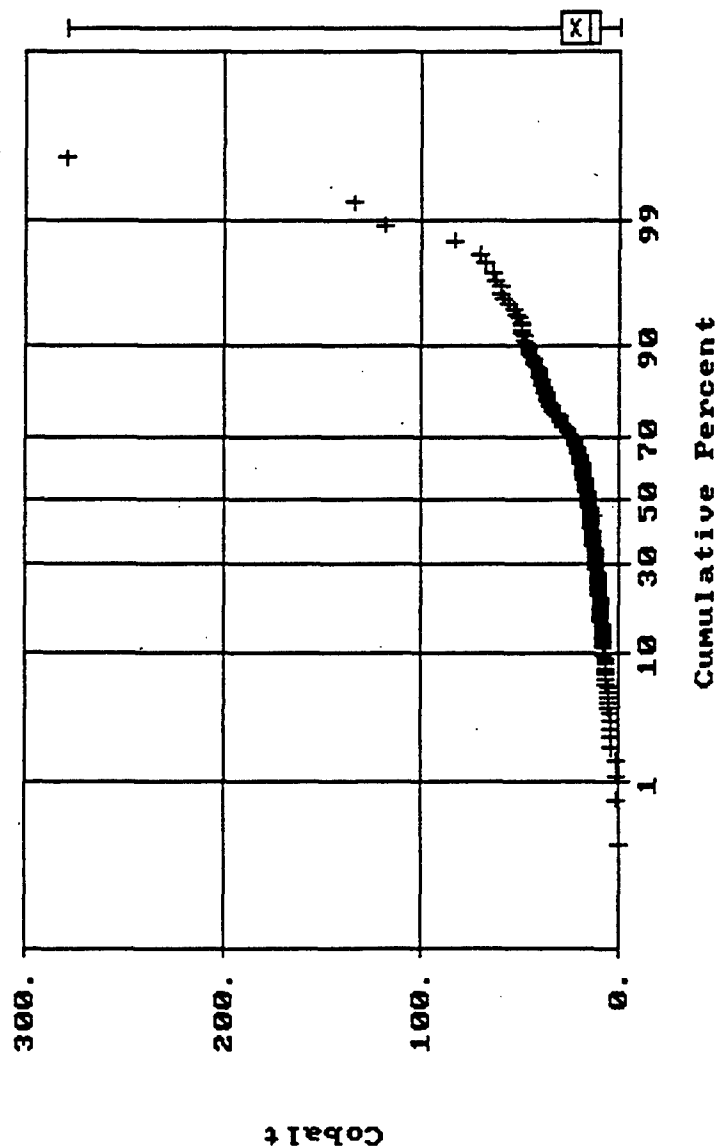
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0211	Fill-Co	Number of samples		Uncensored values		Sort data	
3	0.644	Fill-Co	Uncensored	227	Mean	22.785	Create report	
4	1.25	Fill-Co	Censored		Lognormal mean	24.337	Clear all	
5	1.25	Fill-Co	Detection limit or PQL		Std. devn.	24.934	Histogram	
6	3.2	Fill-Co	Method detection limit		Median	15.2096	5 10 20	
7	3.24	Fill-Co	TOTAL	227	Min.	0.0211		
8	3.3	Fill-Co	ENTER DATA		Max.	279		
9	3.4	Fill-Co	Distribution Decision					
10	4.1	Fill-Co	Probability plot method		W test	D'Agostino's test		
11	5.0475	Fill-Co	Lognormal distribution?		Normal distribution?			
12	5.3	Fill-Co	r-squared is: 0.870		r-squared is: 0.563			
13	5.3151	Fill-Co	Recommendations:					
14	5.341	Fill-Co	Reject lognormal distribution.					
15	5.48	Fill-Co	Y value is -14.6254. This lies outside the tabled values of 1.5225 and -2.3678					
16	6	Fill-Co	Reject normal distribution.					
17	6.07	Fill-Co	Y value is -42.69. This lies outside the tabled values of 1.5225 and -2.3678					
18	6.3	Fill-Co	Upper Confidence Limit (UCL)					
19	6.445	Fill-Co						
20	6.6	Fill-Co						
21	6.65	Fill-Co						
22	6.676	Fill-Co						
23	6.83	Fill-Co						
24	6.89	Fill-Co						
25	7.09	Fill-Co						
26	7.094	Fill-Co						
27	7.16	Fill-Co						
28	7.18	Fill-Co						
29	7.355	Fill-Co						
30	7.422	Fill-Co						
31	7.4629	Fill-Co						
32	7.475	Fill-Co						
33	7.797	Fill-Co						
34	7.962	Fill-Co						
35	7.965	Fill-Co						
36	8.0515	Fill-Co						
37	8.25	Fill-Co						
38	8.5938	Fill-Co						
39	8.7	Fill-Co						
40	8.8	Fill-Co						
41	9.0683	Fill-Co						
42	9.09	Fill-Co						
43	9.1	Fill-Co						
44	9.193	Fill-Co						
45	9.2283	Fill-Co						
46	9.24	Fill-Co						
47	9.34	Fill-Co						
48	9.4617	Fill-Co						
49	9.473	Fill-Co						
50	9.493	Fill-Co						
51	9.6	Fill-Co						
52	9.609	Fill-Co						
53	9.708	Fill-Co						
54	9.7205	Fill-Co						
55	9.75	Fill-Co						
56	9.881	Fill-Co						
57	9.99	Fill-Co						
58	10.131	Fill-Co						
59	10.142	Fill-Co						
60	10.235	Fill-Co						
61	10.3	Fill-Co						
62	10.3	Fill-Co						
63	10.3892	Fill-Co						
64	10.393	Fill-Co						
65	10.789	Fill-Co						
66	11	Fill-Co						
67	11	Fill-Co						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Cobalt
Data file: fil-all.dat

Statistics

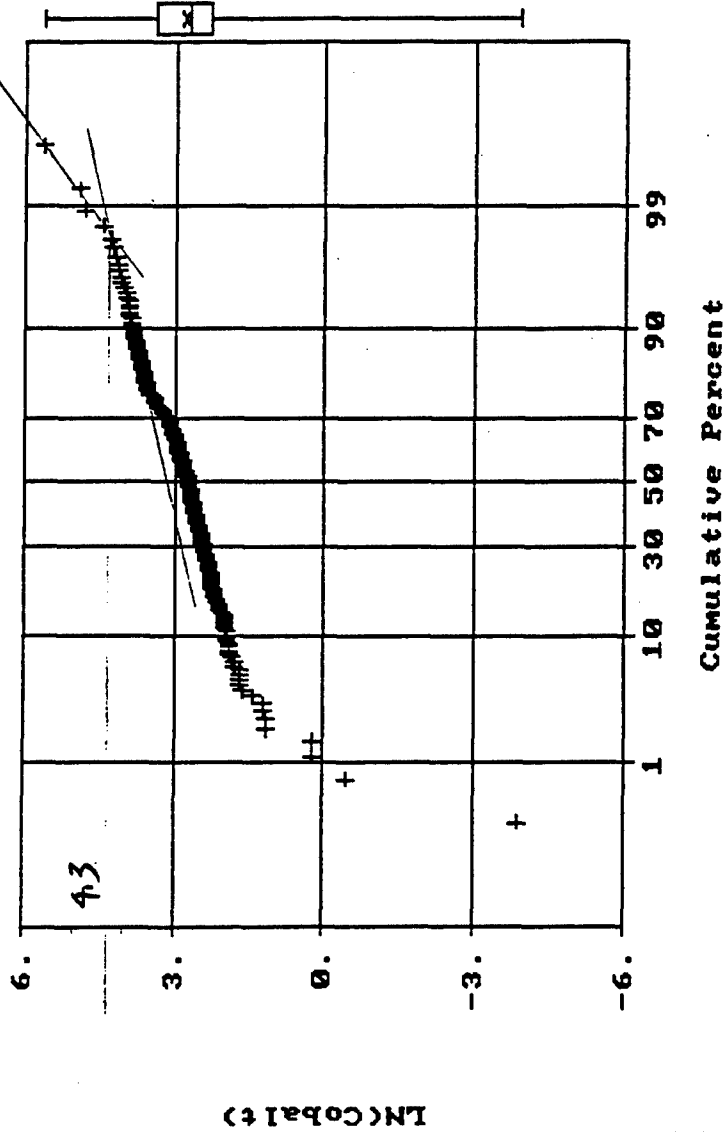
N Total :	371
N Miss :	144
N Used :	227
Mean :	22.785
Variance:	621.729
Std. Dev:	24.934
% C.V. :	109.433
Skewness:	5.666
Kurtosis:	52.781
Minimum :	.021
25th % :	10.096
Median :	15.210
75th % :	29.675
Maximum :	279.000



Normal Probability Plot for LN(Cobalt)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	2.779
Variance:	.827
Std. Dev:	.909
% C.V. :	32.726
Skewness:	-1.762
Kurtosis:	15.313
Minimum :	-3.858
25th % :	2.312
Median :	2.722
75th % :	3.390
Maximum :	5.631



$C_{43} = 73$

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.3374	Fill-Cr	Number of samples		Uncensored values		Sort data	
3	1	Fill-Cr					Create report	
4	9.8048	Fill-Cr	Uncensored	227	Mean	150.305	Clear all	
5	11.242	Fill-Cr	Censored		Lognormal mean	148.541	Histogram	
6	11.391	Fill-Cr	Detection limit or PQL	-----	Std. devn.	211.872	5 10 20	
7	12.7368	Fill-Cr	Method detection limit	-----	Median	80.122		
8	13.2457	Fill-Cr	TOTAL	227	Min.	0.3374		
9	14.2703	Fill-Cr	ENTER DATA		Max	1590		
10	20.1	Fill-Cr	Distribution Decision					
11	23.2358	Fill-Cr	Probability plot method		W test	D'Agostino's test		
12	25	Fill-Cr						
13	27	Fill-Cr	Lognormal distribution?		Normal distribution?			
14	27.0784	Fill-Cr	r-squared is: 0.896		r-squared is: 0.542			
15	28.0462	Fill-Cr	Recommendations:					
16	32.835	Fill-Cr	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
17	33.2	Fill-Cr						
18	33.2625	Fill-Cr						
19	35.6436	Fill-Cr						
20	36.015	Fill-Cr						
21	37.3096	Fill-Cr	Upper Confidence Limit (UCL)					
22	37.6206	Fill-Cr						
23	37.9	Fill-Cr						
24	38.3	Fill-Cr						
25	39.685	Fill-Cr						
26	40.3	Fill-Cr						
27	40.7	Fill-Cr						
28	41.6	Fill-Cr						
29	41.8	Fill-Cr						
30	42.4	Fill-Cr						
31	43	Fill-Cr						
32	43.1416	Fill-Cr						
33	43.4	Fill-Cr						
34	43.8	Fill-Cr						
35	44.6377	Fill-Cr						
36	44.9	Fill-Cr						
37	45	Fill-Cr						
38	47.163	Fill-Cr						
39	47.2	Fill-Cr						
40	47.918	Fill-Cr						
41	48	Fill-Cr						
42	48.2	Fill-Cr						
43	48.5	Fill-Cr						
44	48.6	Fill-Cr						
45	48.6333	Fill-Cr						
46	49.0385	Fill-Cr						
47	49.13	Fill-Cr						
48	49.484	Fill-Cr						
49	50	Fill-Cr						
50	50.5	Fill-Cr						
51	51	Fill-Cr						
52	51.2	Fill-Cr						
53	51.5	Fill-Cr						
54	51.698	Fill-Cr						
55	52.0335	Fill-Cr						
56	52.5	Fill-Cr						
57	53	Fill-Cr						
58	53.4483	Fill-Cr						
59	53.9	Fill-Cr						
60	53.967	Fill-Cr						
61	54.0023	Fill-Cr						
62	56	Fill-Cr						
63	56.6	Fill-Cr						
64	56.9	Fill-Cr						
65	58.097	Fill-Cr						
66	59.1	Fill-Cr						
67	59.481	Fill-Cr						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

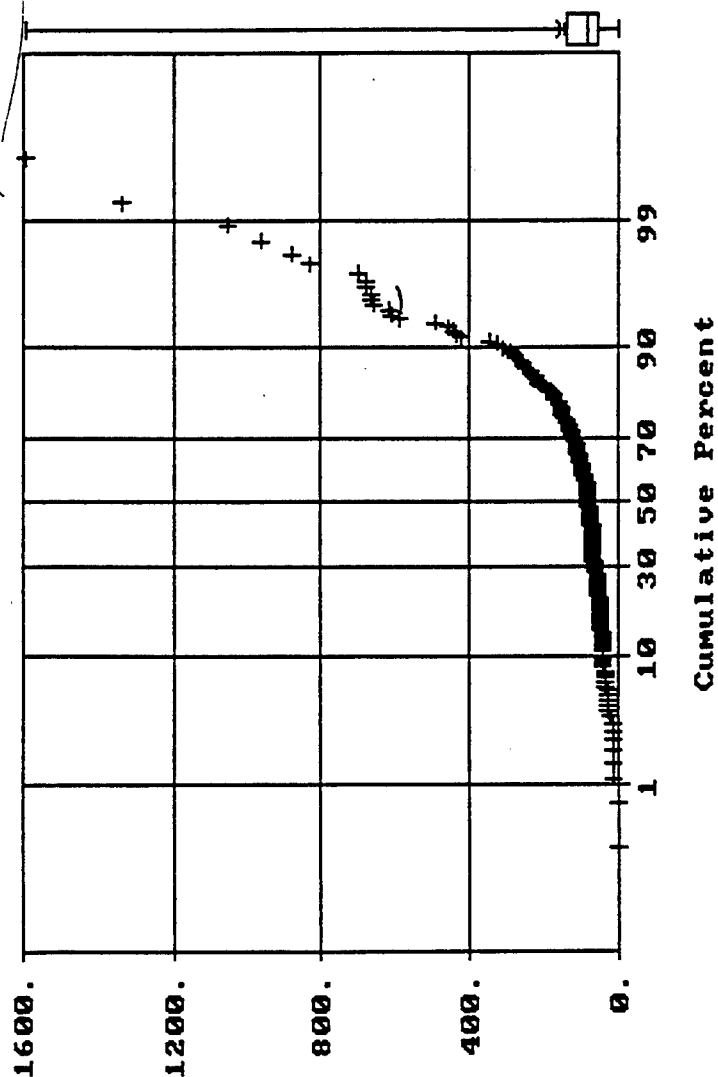
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.3374	Fill-Cr	Number of samples		Uncensored values		Sort data	
3	1	Fill-Cr	Uncensored	227	Mean	150.305	Create report	
4	9.8048	Fill-Cr	Censored		Lognormal mean	148.541	Clear all	
5	11.242	Fill-Cr	Detection limit or PQL		Std. devn.	211.872	Histogram	
6	11.391	Fill-Cr	Method detection limit		Median	80.122	5 10 20	
7	12.7368	Fill-Cr	TOTAL	227	Min.	0.3374		
8	13.2457	Fill-Cr	ENTER DATA		Max	1590		
9	14.2703	Fill-Cr	Distribution Decision					
10	20.1	Fill-Cr	Probability plot method		W test	D'Agostino's test		
11	23.2358	Fill-Cr	Lognormal distribution?		Normal distribution?			
12	25	Fill-Cr	r-squared is: 0.896		r-squared is: 0.542			
13	27	Fill-Cr	Recommendations:					
14	27.0784	Fill-Cr	Reject lognormal distribution.					
15	28.0462	Fill-Cr	Y value is -13.8737. This lies outside the tabled values of 1.5225 and -2.3678					
16	32.835	Fill-Cr	Reject normal distribution.					
17	33.2	Fill-Cr	Y value is -46.8902. This lies outside the tabled values of 1.5225 and -2.3678					
18	33.2625	Fill-Cr	Upper Confidence Limit (UCL)					
19	35.6436	Fill-Cr						
20	36.015	Fill-Cr						
21	37.3096	Fill-Cr						
22	37.6206	Fill-Cr						
23	37.9	Fill-Cr						
24	38.3	Fill-Cr						
25	39.685	Fill-Cr						
26	40.3	Fill-Cr						
27	40.7	Fill-Cr						
28	41.6	Fill-Cr						
29	41.8	Fill-Cr						
30	42.4	Fill-Cr						
31	43	Fill-Cr						
32	43.1416	Fill-Cr						
33	43.4	Fill-Cr						
34	43.8	Fill-Cr						
35	44.6577	Fill-Cr						
36	44.9	Fill-Cr						
37	45	Fill-Cr						
38	47.163	Fill-Cr						
39	47.2	Fill-Cr						
40	47.918	Fill-Cr						
41	48	Fill-Cr						
42	48.2	Fill-Cr						
43	48.5	Fill-Cr						
44	48.6	Fill-Cr						
45	48.6333	Fill-Cr						
46	49.0385	Fill-Cr						
47	49.13	Fill-Cr						
48	49.484	Fill-Cr						
49	50	Fill-Cr						
50	50.5	Fill-Cr						
51	51	Fill-Cr						
52	51.2	Fill-Cr						
53	51.5	Fill-Cr						
54	51.698	Fill-Cr						
55	52.0335	Fill-Cr						
56	52.5	Fill-Cr						
57	53	Fill-Cr						
58	53.4483	Fill-Cr						
59	53.9	Fill-Cr						
60	53.967	Fill-Cr						
61	54.0023	Fill-Cr						
62	56	Fill-Cr						
63	56.6	Fill-Cr						
64	56.9	Fill-Cr						
65	58.097	Fill-Cr						
66	59.1	Fill-Cr						
67	59.481	Fill-Cr						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

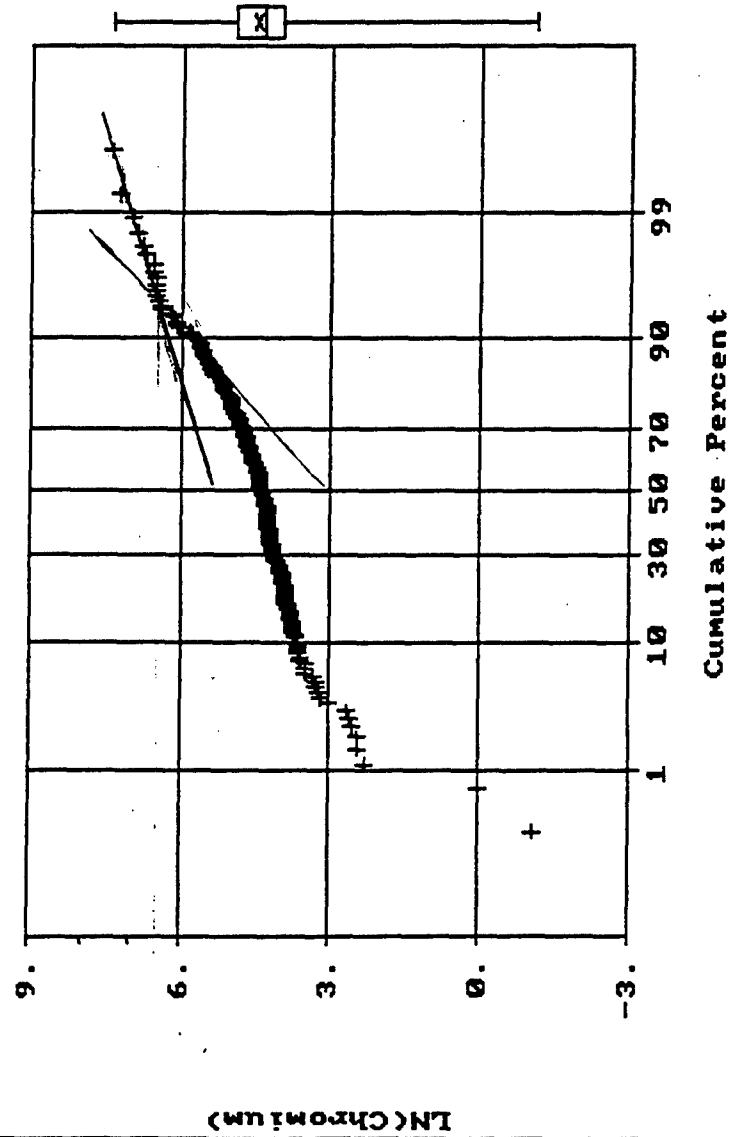
Normal Probability Plot for Chromium
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	150.305
Variance:	44889.550
Std. Dev:	211.872
% C.V. :	140.961
Skewness:	3.627
Kurtosis:	18.700
Minimum :	.337
25th % :	53.336
Median :	80.122
75th % :	138.119
Maximum :	1590.000



Normal Probability Plot for LN(Chromium)
Data file: fil-all.dat



Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	4.499
Variance:	1.004
Std. Dev:	1.002
% C.V. :	22.279
Skewness:	-.597
Kurtosis:	8.600
Minimum :	-1.086
25th % :	3.977
Median :	4.384
75th % :	4.928
Maximum :	7.371

$\sigma^2 \approx 600$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0133	Fill-Cu	Number of samples		Uncensored values		Sort data	
3	0.25	Fill-Cu	Uncensored	227	Mean	232.427	Create report	
4	1.42	Fill-Cu	Censored		Lognormal mean	77.900	Clear all	
5	1.42	Fill-Cu	Detection limit or PQL		Std. devn.	2586.462	Histogram	
6	1.42	Fill-Cu	Method detection limit		Median	34.7	5 10 20	
7	1.5	Fill-Cu	TOTAL	227	Min.	0.0133		
8	1.6	Fill-Cu	ENTER DATA		Max	39000		
9	3.182	Fill-Cu	Distribution Decision					
10	3.3	Fill-Cu	Probability plot method		W test	D'Agostino's test		
11	4.084	Fill-Cu	Lognormal distribution?		Normal distribution?			
12	5.7245	Fill-Cu	r-squared is: 0.861		r-squared is: 0.045			
13	6.05	Fill-Cu	Recommendations:					
14	6.21	Fill-Cu	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	6.817	Fill-Cu	Upper Confidence Limit (UCL)					
16	7.2795	Fill-Cu						
17	7.69	Fill-Cu						
18	8.45	Fill-Cu						
19	8.638	Fill-Cu						
20	8.75	Fill-Cu						
21	9.169	Fill-Cu						
22	9.3	Fill-Cu						
23	10.052	Fill-Cu						
24	10.9	Fill-Cu						
25	11.1	Fill-Cu						
26	11.2395	Fill-Cu						
27	11.279	Fill-Cu						
28	11.5	Fill-Cu						
29	11.678	Fill-Cu						
30	11.9952	Fill-Cu						
31	12	Fill-Cu						
32	12.4	Fill-Cu						
33	12.8	Fill-Cu						
34	13	Fill-Cu						
35	13.341	Fill-Cu						
36	13.683	Fill-Cu						
37	13.812	Fill-Cu						
38	14	Fill-Cu						
39	14.5	Fill-Cu						
40	15.6	Fill-Cu						
41	15.9	Fill-Cu						
42	16	Fill-Cu						
43	16	Fill-Cu						
44	16.174	Fill-Cu						
45	16.28	Fill-Cu						
46	16.874	Fill-Cu						
47	17.931	Fill-Cu						
48	18.153	Fill-Cu						
49	18.977	Fill-Cu						
50	19	Fill-Cu						
51	19	Fill-Cu						
52	19.208	Fill-Cu						
53	19.3	Fill-Cu						
54	19.7	Fill-Cu						
55	19.881	Fill-Cu						
56	19.9	Fill-Cu						
57	20.008	Fill-Cu						
58	20.098	Fill-Cu						
59	20.6	Fill-Cu						
60	20.7	Fill-Cu						
61	20.7525	Fill-Cu						
62	21	Fill-Cu						
63	21.2	Fill-Cu						
64	21.4823	Fill-Cu						
65	21.6	Fill-Cu						
66	21.8	Fill-Cu						
67	22	Fill-Cu						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0133	Fill-Cu					Sort data	
3	0.25	Fill-Cu					Create report	
4	1.42	Fill-Cu					Clear all	
5	1.42	Fill-Cu					Histogram	
6	1.42	Fill-Cu					5 10 20	
7	1.5	Fill-Cu					Clear messages	
8	1.6	Fill-Cu					Calculate UCL	
9	3.182	Fill-Cu					Lognormal	
10	3.3	Fill-Cu					Normal	
11	4.084	Fill-Cu					Neither	
12	5.7245	Fill-Cu					Sample size	
13	6.05	Fill-Cu						
14	6.21	Fill-Cu						
15	6.817	Fill-Cu						
16	7.2795	Fill-Cu						
17	7.69	Fill-Cu						
18	8.45	Fill-Cu						
19	8.638	Fill-Cu						
20	8.75	Fill-Cu						
21	9.169	Fill-Cu						
22	9.3	Fill-Cu						
23	10.052	Fill-Cu						
24	10.9	Fill-Cu						
25	11.1	Fill-Cu						
26	11.2395	Fill-Cu						
27	11.279	Fill-Cu						
28	11.5	Fill-Cu						
29	11.678	Fill-Cu						
30	11.9952	Fill-Cu						
31	12	Fill-Cu						
32	12.4	Fill-Cu						
33	12.8	Fill-Cu						
34	13	Fill-Cu						
35	13.341	Fill-Cu						
36	13.683	Fill-Cu						
37	13.812	Fill-Cu						
38	14	Fill-Cu						
39	14.5	Fill-Cu						
40	15.6	Fill-Cu						
41	15.9	Fill-Cu						
42	16	Fill-Cu						
43	16	Fill-Cu						
44	16.174	Fill-Cu						
45	16.28	Fill-Cu						
46	16.874	Fill-Cu						
47	17.931	Fill-Cu						
48	18.153	Fill-Cu						
49	18.977	Fill-Cu						
50	19	Fill-Cu						
51	19	Fill-Cu						
52	19.208	Fill-Cu						
53	19.3	Fill-Cu						
54	19.7	Fill-Cu						
55	19.881	Fill-Cu						
56	19.9	Fill-Cu						
57	20.008	Fill-Cu						
58	20.098	Fill-Cu						
59	20.6	Fill-Cu						
60	20.7	Fill-Cu						
61	20.7525	Fill-Cu						
62	21	Fill-Cu						
63	21.2	Fill-Cu						
64	21.4823	Fill-Cu						
65	21.6	Fill-Cu						
66	21.8	Fill-Cu						
67	22	Fill-Cu						

Uncensored values

Number of samples: 227

Uncensored: 227

Censored: 0

Detection limit or PQL: 0

Method detection limit: 0

TOTAL: 227

ENTER DATA

Mean: 232.427

Lognormal mean: 77.900

Std. devn.: 2586.462

Median: 34.7

Min.: 0.0133

Max.: 39000

Distribution Decision

Probability plot method: W test D'Agostino's test

Lognormal distribution? r-squared is: 0.861

Normal distribution? r-squared is: 0.045

Recommendations:

Reject lognormal distribution.

Y value is -18.9018. This lies outside the tabled values of 1.5225 and -2.3678

Reject normal distribution.

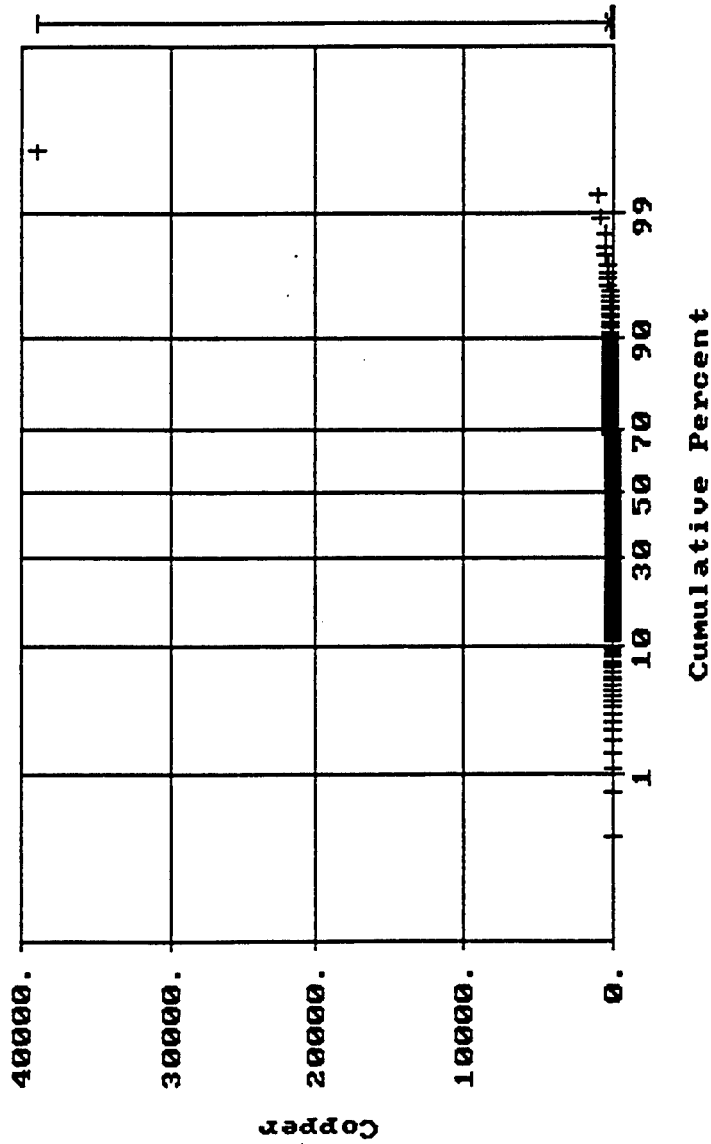
Y value is -121.8597. This lies outside the tabled values of 1.5225 and -2.3678

Upper Confidence Limit (UCL)

Normal Probability Plot for Copper
Data file: fil-all.dat

S t a t i s t i c s

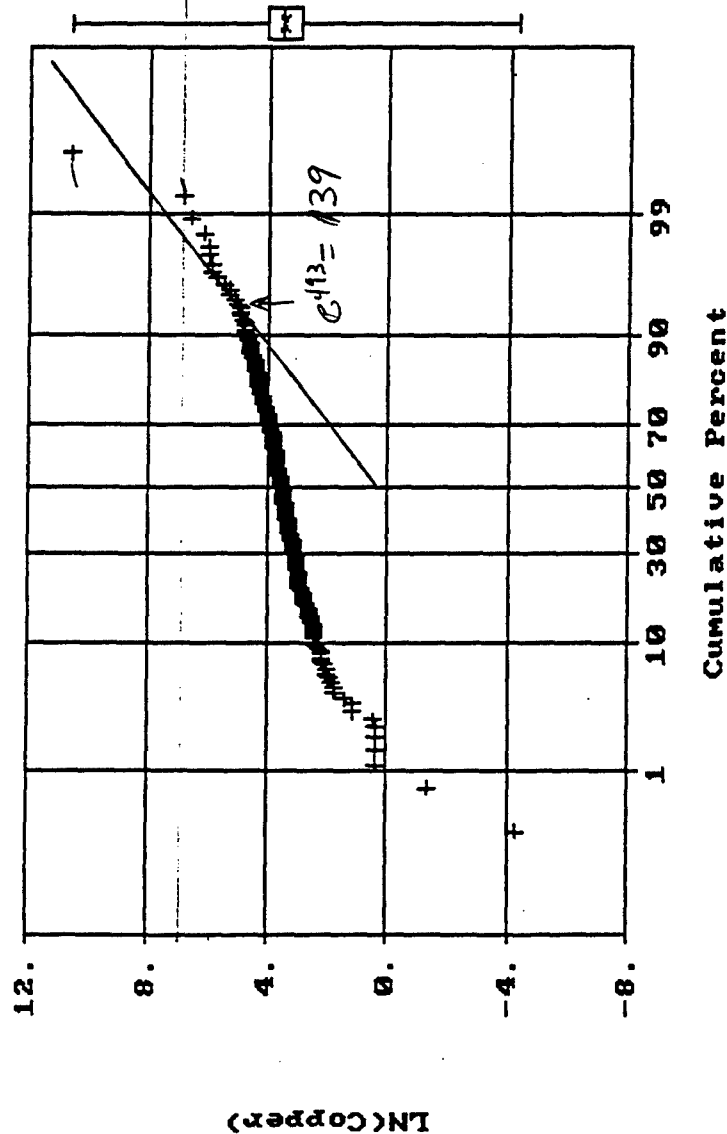
N Total :	371
N Miss :	144
N Used :	227
Mean :	232.427
Variance:	6689784.000
Std. Dev:	2586.462
% C.V. :	1112.804
Skewness:	14.932
Kurtosis:	224.316
Minimum :	.013
25th % :	20.076
Median :	34.700
75th % :	62.377
Maximum :	39000.000



Normal Probability Plot for LN(Copper)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	3.524
Variance :	1.663
Std. Dev :	1.290
% C.V. :	36.594
Skewness :	-.566
Kurtosis :	12.890
Minimum :	-4.320
25th % :	2.999
Median :	3.547
75th % :	4.133
Maximum :	10.571



~~7x100~~

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.475	Fill-Fe	Number of samples		Uncensored values		Sort data	
3	3996.436	Fill-Fe	Uncensored	227	Mean	28074.015	Create report	
4	4000	Fill-Fe	Censored		Lognormal mean	34919.875	Clear all	
5	4004.4248	Fill-Fe	Detection limit or PQL	-----	Std. devn.	17140.307	Histogram	
6	5800	Fill-Fe	Method detection limit	-----	Median	25000	5 10 20	
7	6000	Fill-Fe	TOTAL	227	Min.	0.475		
8	6030.478	Fill-Fe	ENTER DATA		Max	140000		
9	8254.1568	Fill-Fe	Distribution Decision					
10	9275.708	Fill-Fe	Probability plot method		W test	D'Agostino's test		
11	9351.7535	Fill-Fe	Lognormal distribution?		Normal distribution?			
12	9500	Fill-Fe	r-squared is: 0.521		r-squared is: 0.760			
13	9789.604	Fill-Fe	Recommendations:				Clear messages	
14	9842.437	Fill-Fe	Reject BOTH lognormal and normal distributions. See Statistics Guidance.				Calculate UCL	
15	10000	Fill-Fe					Lognormal	
16	11000	Fill-Fe	Upper Confidence Limit (UCL)				Normal	
17	110000	Fill-Fe					Neither	
18	11006.118	Fill-Fe					Sample size	
19	11897.1061	Fill-Fe						
20	12000	Fill-Fe						
21	12000	Fill-Fe						
22	12000	Fill-Fe						
23	12500	Fill-Fe						
24	125343.242	Fill-Fe						
25	12860.5769	Fill-Fe						
26	13000	Fill-Fe						
27	13000	Fill-Fe						
28	13000	Fill-Fe						
29	13000	Fill-Fe						
30	13500	Fill-Fe						
31	14000	Fill-Fe						
32	14000	Fill-Fe						
33	14000	Fill-Fe						
34	140000	Fill-Fe						
35	14114.8325	Fill-Fe						
36	15000	Fill-Fe						
37	15000	Fill-Fe						
38	15000	Fill-Fe						
39	15300	Fill-Fe						
40	15688.7755	Fill-Fe						
41	15709.6425	Fill-Fe						
42	16000	Fill-Fe						
43	16000	Fill-Fe						
44	16000	Fill-Fe						
45	16100	Fill-Fe						
46	16436.7816	Fill-Fe						
47	16735.5372	Fill-Fe						
48	17000	Fill-Fe						
49	17000	Fill-Fe						
50	17023.6753	Fill-Fe						
51	17371.176	Fill-Fe						
52	17450	Fill-Fe						
53	17604.7904	Fill-Fe						
54	17655.367	Fill-Fe						
55	17894.697	Fill-Fe						
56	18000	Fill-Fe						
57	18000	Fill-Fe						
58	18000	Fill-Fe						
59	18112.7983	Fill-Fe						
60	18170.8785	Fill-Fe						
61	18260.8696	Fill-Fe						
62	18552.0362	Fill-Fe						
63	18977.2727	Fill-Fe						
64	19000	Fill-Fe						
65	19012.3457	Fill-Fe						
66	19125	Fill-Fe						
67	19167.5794	Fill-Fe						

Background data analysis

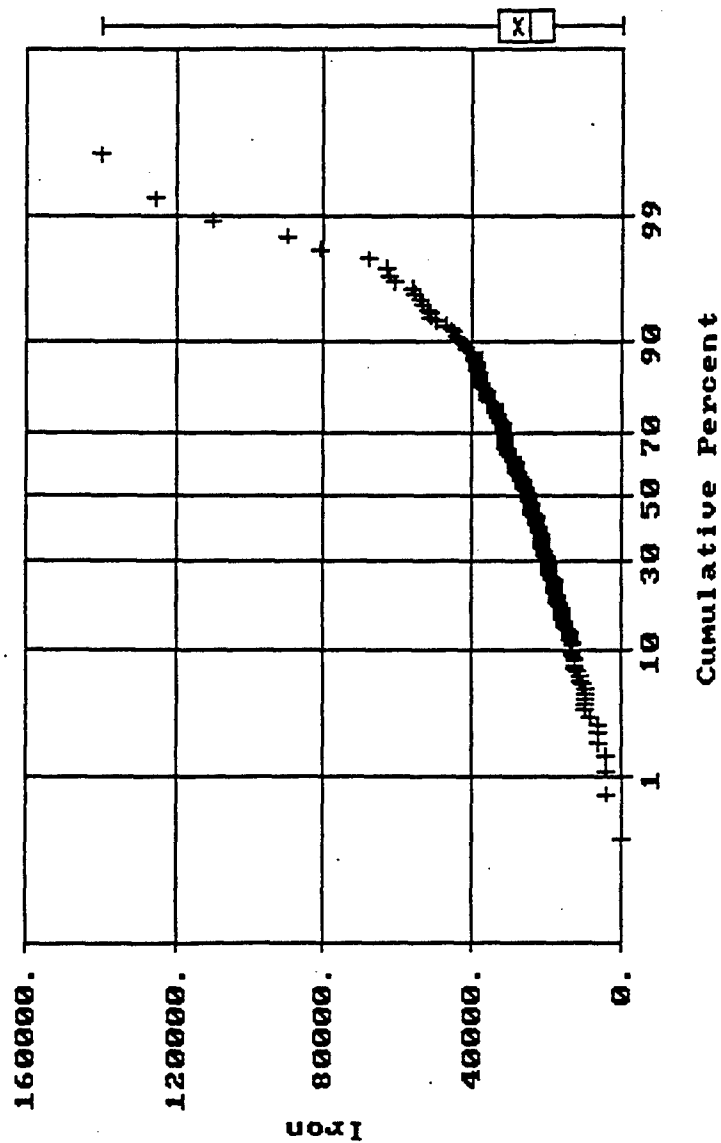
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.475	Fill-Fe	Number of samples		Uncensored values		Sort data	
3	3996.436	Fill-Fe	Uncensored	227	Mean	28074.015	Create report	
4	4000	Fill-Fe	Censored		Lognormal mean	34919.875	Clear all	
5	4004.4248	Fill-Fe	Detection limit or PQL	-----	Std. devn.	17140.307	Histogram	
6	5800	Fill-Fe	Method detection limit	-----	Median	25000	5	10
7	6000	Fill-Fe	TOTAL	227	Min.	0.475	20	
8	6030.478	Fill-Fe	ENTER DATA		Max	140000		
9	8254.1568	Fill-Fe	Distribution Decision					
10	9275.708	Fill-Fe	Probability plot method		W test	D'Agostino's test		
11	9351.7535	Fill-Fe	Lognormal distribution?		Normal distribution?			
12	9500	Fill-Fe	r-squared is: 0.521		r-squared is: 0.760			
13	9789.604	Fill-Fe	Recommendations:					
14	9842.437	Fill-Fe	Reject lognormal distribution.					
15	10000	Fill-Fe	Y value is -48.6239. This lies outside the tabled values of 1.5225 and -2.3678					
16	11000	Fill-Fe	Reject normal distribution.					
17	110000	Fill-Fe	Y value is -25.2658. This lies outside the tabled values of 1.5225 and -2.3678					
18	11006.118	Fill-Fe	Upper Confidence Limit (UCL)					
19	11897.1061	Fill-Fe						
20	12000	Fill-Fe						
21	12000	Fill-Fe						
22	12000	Fill-Fe						
23	12500	Fill-Fe						
24	125343.242	Fill-Fe						
25	12860.5769	Fill-Fe						
26	13000	Fill-Fe						
27	13000	Fill-Fe						
28	13000	Fill-Fe						
29	13000	Fill-Fe						
30	13500	Fill-Fe						
31	14000	Fill-Fe						
32	14000	Fill-Fe						
33	14000	Fill-Fe						
34	140000	Fill-Fe						
35	14114.8325	Fill-Fe						
36	15000	Fill-Fe						
37	15000	Fill-Fe						
38	15000	Fill-Fe						
39	15300	Fill-Fe						
40	15688.7755	Fill-Fe						
41	15709.6425	Fill-Fe						
42	16000	Fill-Fe						
43	16000	Fill-Fe						
44	16000	Fill-Fe						
45	16100	Fill-Fe						
46	16436.7816	Fill-Fe						
47	16735.5372	Fill-Fe						
48	17000	Fill-Fe						
49	17000	Fill-Fe						
50	17023.6753	Fill-Fe						
51	17371.176	Fill-Fe						
52	17450	Fill-Fe						
53	17604.7904	Fill-Fe						
54	17655.367	Fill-Fe						
55	17894.697	Fill-Fe						
56	18000	Fill-Fe						
57	18000	Fill-Fe						
58	18000	Fill-Fe						
59	18112.7983	Fill-Fe						
60	18170.8785	Fill-Fe						
61	18260.8696	Fill-Fe						
62	18552.0362	Fill-Fe						
63	18977.2727	Fill-Fe						
64	19000	Fill-Fe						
65	19012.3457	Fill-Fe						
66	19125	Fill-Fe						
67	19167.5794	Fill-Fe						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Iron
Data file: fil-all.dat

S t a t i s t i c s

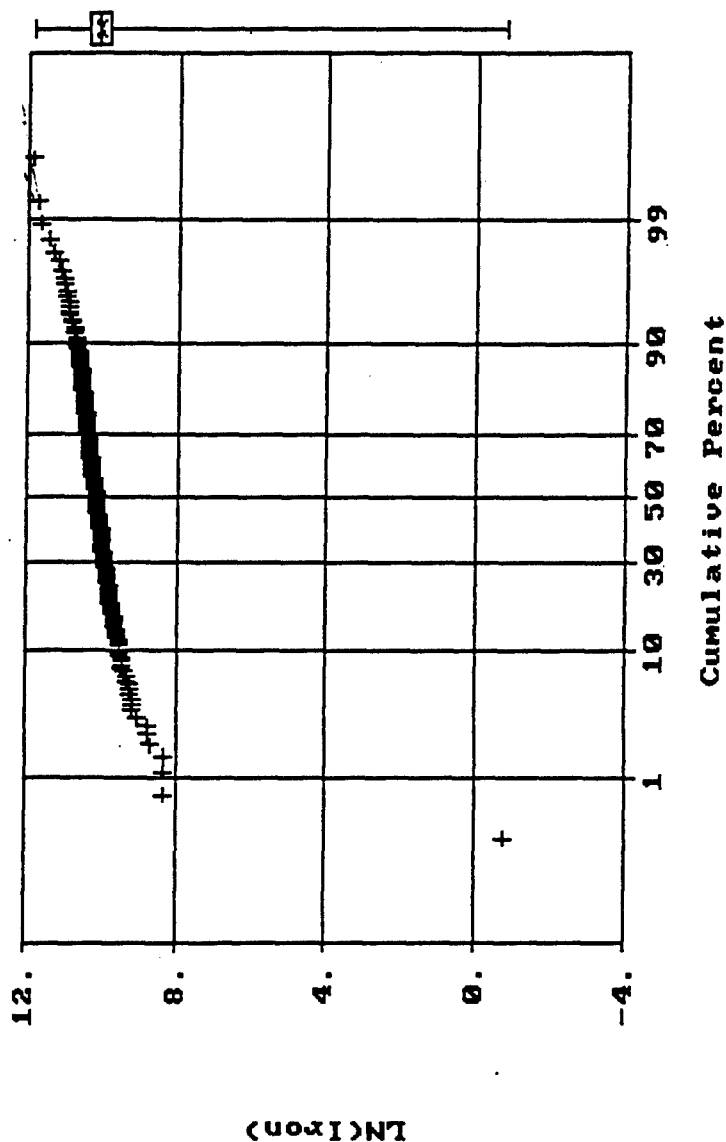
N Total :	371
N Miss :	144
N Used :	227
Mean :	28074.020
Variance:	293790100.000
Std. Dev:	17140.310
% C.V. :	61.054
Skewness:	2.957
Kurtosis:	16.942
Minimum :	.475
25th % :	18238.370
Median :	25000.000
75th % :	33000.000
Maximum :	140000.000



Normal Probability Plot for LN(Iron)
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	10.059
Variance:	.803
Std. Dev:	.896
% C.V. :	8.908
Skewness:	-7.785
Kurtosis:	94.524
Minimum :	-.744
25th % :	9.811
Median :	10.127
75th % :	10.404
Maximum :	11.849



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Fill-Hg	Number of samples		Uncensored values		Sort data	
3	0.005	Fill-Hg	Uncensored	226	Mean	0.233	Create report	
4	0.0135	Fill-Hg	Censored		Lognormal mean	0.175	Clear all	
5	0.0135	Fill-Hg	Detection limit or PQL	-----	Std. devn.	0.660	Histogram	
6	0.0135	Fill-Hg	Method detection limit	-----	Median	0.0745	5	10
7	0.0135	Fill-Hg	TOTAL	226	Min.	0.005	20	
8	0.0135	Fill-Hg	ENTER DATA		Max	6.819	Clear messages	
9	0.0135	Fill-Hg	Distribution Decision				Calculate UCL	
10	0.0135	Fill-Hg	Probability plot method		W test	D'Agostino's test	Lognormal	
11	0.0135	Fill-Hg	Lognormal distribution?		Normal distribution?		Normal	
12	0.0135	Fill-Hg	r-squared is: 0.955		r-squared is: 0.295		Neither	
13	0.0135	Fill-Hg	Recommendations:				Sample size	
14	0.0135	Fill-Hg	Use lognormal distribution.					
15	0.016	Fill-Hg						
16	0.02	Fill-Hg						
17	0.025	Fill-Hg						
18	0.025	Fill-Hg						
19	0.025	Fill-Hg						
20	0.025	Fill-Hg						
21	0.025	Fill-Hg						
22	0.025	Fill-Hg						
23	0.025	Fill-Hg						
24	0.025	Fill-Hg						
25	0.025	Fill-Hg						
26	0.025	Fill-Hg						
27	0.025	Fill-Hg						
28	0.025	Fill-Hg						
29	0.025	Fill-Hg						
30	0.025	Fill-Hg						
31	0.025	Fill-Hg						
32	0.025	Fill-Hg						
33	0.025	Fill-Hg						
34	0.025	Fill-Hg						
35	0.025	Fill-Hg						
36	0.025	Fill-Hg						
37	0.025	Fill-Hg						
38	0.025	Fill-Hg						
39	0.025	Fill-Hg						
40	0.025	Fill-Hg						
41	0.025	Fill-Hg						
42	0.025	Fill-Hg						
43	0.027	Fill-Hg						
44	0.027	Fill-Hg						
45	0.029	Fill-Hg						
46	0.0295	Fill-Hg						
47	0.0295	Fill-Hg						
48	0.0295	Fill-Hg						
49	0.0295	Fill-Hg						
50	0.0295	Fill-Hg						
51	0.0295	Fill-Hg						
52	0.0295	Fill-Hg						
53	0.0295	Fill-Hg						
54	0.0295	Fill-Hg						
55	0.0295	Fill-Hg						
56	0.0295	Fill-Hg						
57	0.0295	Fill-Hg						
58	0.0295	Fill-Hg						
59	0.03	Fill-Hg						
60	0.03	Fill-Hg						
61	0.031	Fill-Hg						
62	0.032	Fill-Hg						
63	0.034	Fill-Hg						
64	0.034	Fill-Hg						
65	0.034	Fill-Hg						
66	0.036	Fill-Hg						
67	0.036	Fill-Hg						

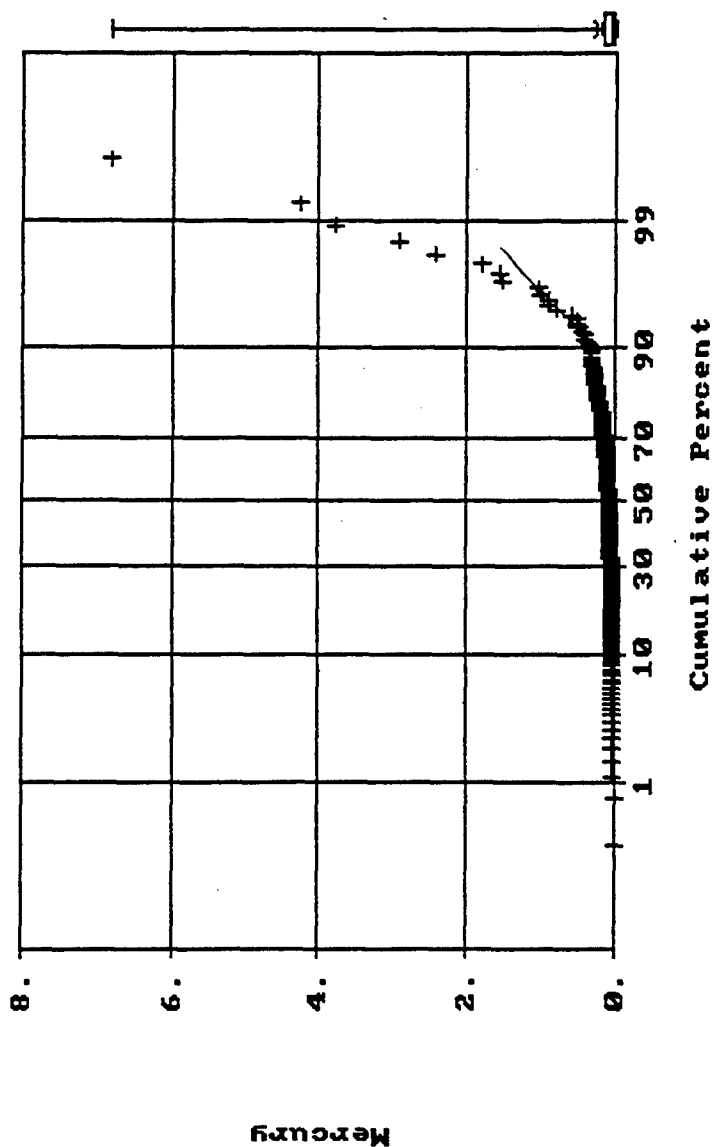
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Full-Hg	Number of samples		Uncensored values		Sort data	
3	0.005	Full-Hg	Uncensored	226	Mean	0.233	Create report	
4	0.0135	Full-Hg	Censored		Lognormal mean	0.175	Clear all	
5	0.0135	Full-Hg	Detection limit or PQL	-----	Std. devn.	0.660	Histogram	
6	0.0135	Full-Hg	Method detection limit	-----	Median	0.0745	5	10
7	0.0135	Full-Hg	TOTAL	226	Min.	0.005	20	
8	0.0135	Full-Hg	ENTER DATA		Max	6.819	Clear messages	
9	0.0135	Full-Hg	Distribution Decision					
10	0.0135	Full-Hg	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	0.0135	Full-Hg	Lognormal distribution?		Normal distribution?		Lognormal	
12	0.0135	Full-Hg	r-squared is: 0.955		r-squared is: 0.295		Normal	
13	0.0135	Full-Hg	Recommendations					
14	0.0135	Full-Hg	Reject lognormal distribution.					
15	0.016	Full-Hg	Y value is -4.357. This lies outside the tabled values of 1.5215 and -2.3686					
16	0.02	Full-Hg	Reject normal distribution.					
17	0.025	Full-Hg	Y value is -77.7265. This lies outside the tabled values of 1.5215 and -2.3686					
18	0.025	Full-Hg	Upper Confidence Limit (UCL)					
19	0.025	Full-Hg						
20	0.025	Full-Hg						
21	0.025	Full-Hg						
22	0.025	Full-Hg						
23	0.025	Full-Hg						
24	0.025	Full-Hg						
25	0.025	Full-Hg						
26	0.025	Full-Hg						
27	0.025	Full-Hg						
28	0.025	Full-Hg						
29	0.025	Full-Hg						
30	0.025	Full-Hg						
31	0.025	Full-Hg						
32	0.025	Full-Hg						
33	0.025	Full-Hg						
34	0.025	Full-Hg						
35	0.025	Full-Hg						
36	0.025	Full-Hg						
37	0.025	Full-Hg						
38	0.025	Full-Hg						
39	0.025	Full-Hg						
40	0.025	Full-Hg						
41	0.025	Full-Hg						
42	0.025	Full-Hg						
43	0.027	Full-Hg						
44	0.027	Full-Hg						
45	0.029	Full-Hg						
46	0.0295	Full-Hg						
47	0.0295	Full-Hg						
48	0.0295	Full-Hg						
49	0.0295	Full-Hg						
50	0.0295	Full-Hg						
51	0.0295	Full-Hg						
52	0.0295	Full-Hg						
53	0.0295	Full-Hg						
54	0.0295	Full-Hg						
55	0.0295	Full-Hg						
56	0.0295	Full-Hg						
57	0.0295	Full-Hg						
58	0.0295	Full-Hg						
59	0.03	Full-Hg						
60	0.03	Full-Hg						
61	0.031	Full-Hg						
62	0.032	Full-Hg						
63	0.034	Full-Hg						
64	0.034	Full-Hg						
65	0.034	Full-Hg						
66	0.036	Full-Hg						
67	0.036	Full-Hg						

Normal Probability Plot for Mercury
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	145
N Used :	226
Mean :	.233
Variance:	.436
Std. Dev:	.660
% C.V. :	283.103
Skewness:	6.722
Kurtosis:	56.166
Minimum :	.005
25th % :	.030
Median :	.075
75th % :	.167
Maximum :	6.819

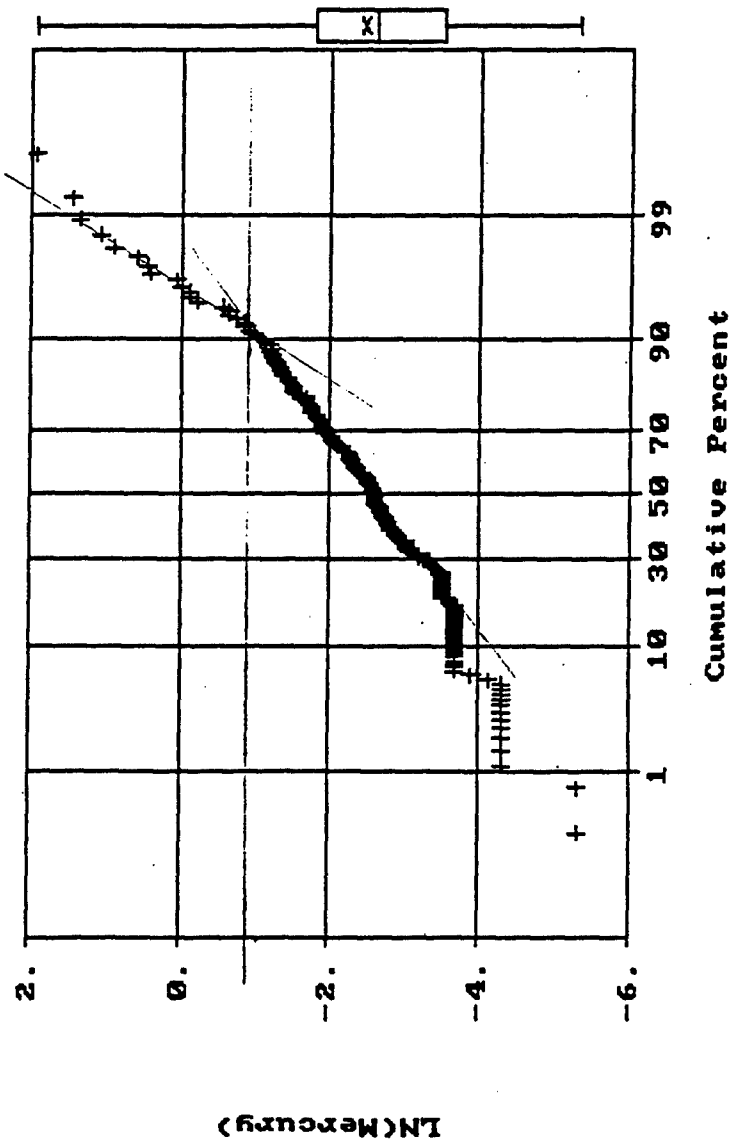


Normal Probability Plot for LN(Mercury)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	145
N Used :	226
Mean :	-2.470
Variance:	1.460
Std. Dev:	1.208
% C.V. :	48.908
Skewness:	.795
Kurtosis:	4.117
Minimum :	-5.298
25th % :	-3.523
Median :	-2.597
75th % :	-1.790
Maximum :	1.920

$c^2 = 0.4$



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0078	Fill-Mn	Number of samples		Uncensored values		Sort data	
3	34.37	Fill-Mn	Uncensored	227	Mean	589.646	Create report	
4	39	Fill-Mn	Censored		Lognormal mean	728.451	Clear all	
5	65.058	Fill-Mn	Detection limit or PQL		Std. devn.	529.254	Histogram	
6	81	Fill-Mn	Method detection limit		Median	450	5	10
7	113.1829	Fill-Mn	TOTAL	227	Min.	0.0078	20	
8	137	Fill-Mn	ENTER DATA		Max	4648.6486	Clear messages	
9	151	Fill-Mn	Distribution Decision					
10	152.066	Fill-Mn	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	155	Fill-Mn	Lognormal distribution?		Normal distribution?		Lognormal	
12	158	Fill-Mn	r-squared is: 0.635		r-squared is: 0.653		Normal	
13	158.6134	Fill-Mn	Recommendations:					
14	164	Fill-Mn	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	170	Fill-Mn	Upper Confidence Limit (UCL)					
16	176.4081	Fill-Mn						
17	180	Fill-Mn						
18	182.462	Fill-Mn						
19	193	Fill-Mn						
20	194.3069	Fill-Mn						
21	196.1415	Fill-Mn						
22	200.321	Fill-Mn						
23	202	Fill-Mn						
24	205	Fill-Mn						
25	213	Fill-Mn						
26	216	Fill-Mn						
27	218.448	Fill-Mn						
28	233	Fill-Mn						
29	234.375	Fill-Mn						
30	237	Fill-Mn						
31	238	Fill-Mn						
32	240	Fill-Mn						
33	248.464	Fill-Mn						
34	253.789	Fill-Mn						
35	254	Fill-Mn						
36	255	Fill-Mn						
37	256	Fill-Mn						
38	260	Fill-Mn						
39	261.231	Fill-Mn						
40	262.1885	Fill-Mn						
41	263.322	Fill-Mn						
42	273	Fill-Mn						
43	273.7603	Fill-Mn						
44	275.798	Fill-Mn						
45	280	Fill-Mn						
46	280.108	Fill-Mn						
47	282.635	Fill-Mn						
48	287	Fill-Mn						
49	290	Fill-Mn						
50	292	Fill-Mn						
51	298	Fill-Mn						
52	298.494	Fill-Mn						
53	300	Fill-Mn						
54	301.401	Fill-Mn						
55	306	Fill-Mn						
56	306	Fill-Mn						
57	309.835	Fill-Mn						
58	310.4693	Fill-Mn						
59	325.8235	Fill-Mn						
60	326	Fill-Mn						
61	330.144	Fill-Mn						
62	331.6327	Fill-Mn						
63	332	Fill-Mn						
64	334.022	Fill-Mn						
65	334.907	Fill-Mn						
66	339.7129	Fill-Mn						
67	340	Fill-Mn						

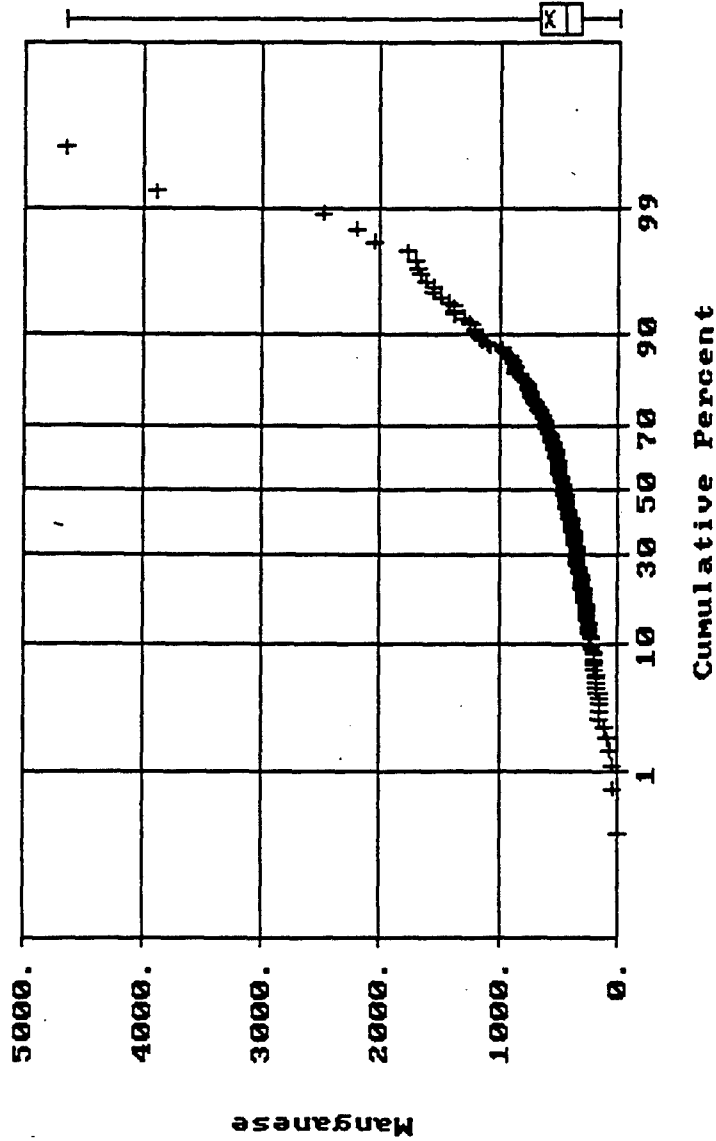
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0078	Fill-Mn	Number of samples		Uncensored values		Sort data	
3	34.37	Fill-Mn	Uncensored	227	Mean	589.646	Create report	
4	39	Fill-Mn	Censored		Lognormal mean	728.451	Clear all	
5	65.058	Fill-Mn	Detection limit or PQL	-----	Std. devn.	529.254	Histogram	
6	81	Fill-Mn	Method detection limit	-----	Median	450	5	10
7	113.1829	Fill-Mn	TOTAL	227	Min.	0.0078	20	
8	137	Fill-Mn	ENTER DATA		Max	4848.6486	Clear messages	
9	151	Fill-Mn	Distribution Decision					
10	152.066	Fill-Mn	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	155	Fill-Mn	Lognormal distribution?		Normal distribution?		Lognormal	
12	158	Fill-Mn	r-squared is: 0.835		r-squared is: 0.853		Normal	
13	158.6134	Fill-Mn	Recommendations:					
14	164	Fill-Mn	Reject lognormal distribution.					
15	170	Fill-Mn	Y value is -37.2163. This lies outside the tabled values of 1.5225 and -2.3678					
16	176.4081	Fill-Mn	Reject normal distribution.					
17	180	Fill-Mn	Y value is -35.0434. This lies outside the tabled values of 1.5225 and -2.3678					
18	182.462	Fill-Mn	Upper Confidence Limit (UCL)					
19	193	Fill-Mn						
20	194.3069	Fill-Mn						
21	196.1415	Fill-Mn						
22	200.321	Fill-Mn						
23	202	Fill-Mn						
24	205	Fill-Mn						
25	213	Fill-Mn						
26	216	Fill-Mn						
27	218.448	Fill-Mn						
28	233	Fill-Mn						
29	234.375	Fill-Mn						
30	237	Fill-Mn						
31	238	Fill-Mn						
32	240	Fill-Mn						
33	248.464	Fill-Mn						
34	253.789	Fill-Mn						
35	254	Fill-Mn						
36	255	Fill-Mn						
37	256	Fill-Mn						
38	260	Fill-Mn						
39	261.231	Fill-Mn						
40	262.1885	Fill-Mn						
41	263.322	Fill-Mn						
42	273	Fill-Mn						
43	273.7603	Fill-Mn						
44	275.798	Fill-Mn						
45	280	Fill-Mn						
46	280.108	Fill-Mn						
47	282.635	Fill-Mn						
48	287	Fill-Mn						
49	290	Fill-Mn						
50	292	Fill-Mn						
51	298	Fill-Mn						
52	298.494	Fill-Mn						
53	300	Fill-Mn						
54	301.401	Fill-Mn						
55	306	Fill-Mn						
56	306	Fill-Mn						
57	309.835	Fill-Mn						
58	310.4693	Fill-Mn						
59	325.8235	Fill-Mn						
60	326	Fill-Mn						
61	330.144	Fill-Mn						
62	331.6327	Fill-Mn						
63	332	Fill-Mn						
64	334.022	Fill-Mn						
65	334.907	Fill-Mn						
66	339.7129	Fill-Mn						
67	340	Fill-Mn						

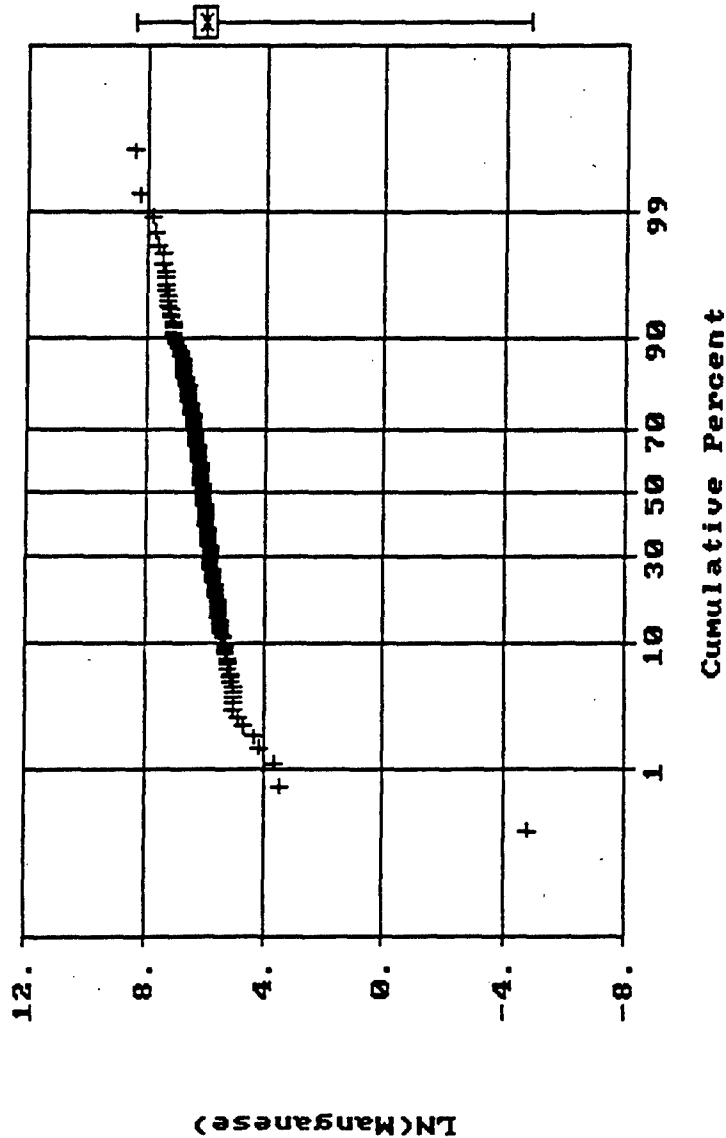
Normal Probability Plot for Manganese
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	589.646
Variance:	280109.400
Std. Dev:	529.254
% C.V. :	89.758
Skewness:	3.807
Kurtosis:	24.358
Minimum :	.000
25th % :	310.311
Median :	450.000
75th % :	658.250
Maximum :	4648.648



Normal Probability Plot for LN(Manganese)
Data file: fil-all.dat



Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	6.090
Variance :	1.003
Std. Dev :	1.001
% C.V. :	16.442
Skewness :	-5.735
Kurtosis :	64.473
Minimum :	-4.854
25th % :	5.738
Median :	6.109
75th % :	6.490
Maximum :	8.444

NONE

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.5	Full-Ni	Number of samples		Uncensored values		Sort data	
3	4.184	Full-Ni	Uncensored	227	Mean	162.477	Create report	
4	8.451	Full-Ni	Censored		Lognormal mean	133.054	Clear all	
5	9.205	Full-Ni	Detection limit or PQL		Std. devn.	368.928	Histogram	
6	12.9067	Full-Ni	Method detection limit		Median	63.8323	5 10 20	
7	13.3625	Full-Ni	TOTAL	227	Min.	2.5	Clear messages	
8	14	Full-Ni	ENTER DATA		Max	4300	Calculate UCL	
9	15.6513	Full-Ni	Distribution Decision					
10	17.1891	Full-Ni	Probability plot method		W test	D'Agostino's test	Lognormal	
11	17.4054	Full-Ni	Lognormal distribution?		Normal distribution?		Normal	
12	18	Full-Ni	r-squared is: 0.935		r-squared is: 0.345		Neither	
13	19	Full-Ni	Recommendations:					
14	21.1	Full-Ni	Use lognormal distribution.					
15	21.3777	Full-Ni	Upper Confidence Limit (UCL)					
16	21.6	Full-Ni						
17	22.786	Full-Ni						
18	23	Full-Ni						
19	24.5	Full-Ni						
20	24.5	Full-Ni						
21	25.252	Full-Ni						
22	26.957	Full-Ni						
23	27.2	Full-Ni						
24	27.309	Full-Ni						
25	27.313	Full-Ni						
26	28.2	Full-Ni						
27	28.991	Full-Ni						
28	29.3305	Full-Ni						
29	29.907	Full-Ni						
30	30	Full-Ni						
31	30.643	Full-Ni						
32	31.322	Full-Ni						
33	31.928	Full-Ni						
34	31.993	Full-Ni						
35	32.109	Full-Ni						
36	32.2	Full-Ni						
37	32.466	Full-Ni						
38	32.5301	Full-Ni						
39	32.614	Full-Ni						
40	32.9	Full-Ni						
41	33.506	Full-Ni						
42	34.5	Full-Ni						
43	35.376	Full-Ni						
44	35.6	Full-Ni						
45	35.964	Full-Ni						
46	36.1	Full-Ni						
47	36.9	Full-Ni						
48	37.084	Full-Ni						
49	37.8132	Full-Ni						
50	38.4058	Full-Ni						
51	39.2	Full-Ni						
52	39.5	Full-Ni						
53	40	Full-Ni						
54	40.039	Full-Ni						
55	40.1914	Full-Ni						
56	40.3001	Full-Ni						
57	40.5048	Full-Ni						
58	40.9	Full-Ni						
59	41.0349	Full-Ni						
60	41.2627	Full-Ni						
61	42.2	Full-Ni						
62	43.052	Full-Ni						
63	43.5	Full-Ni						
64	43.598	Full-Ni						
65	43.6	Full-Ni						
66	43.7	Full-Ni						
67	44	Full-Ni						

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	2.5	Full-Ni	Number of samples		Uncensored values		Sort data	
3	4.184	Full-Ni	Uncensored	227	Mean	162.477	Create report	
4	8.451	Full-Ni	Censored		Lognormal mean	133.054	Clear all	
5	9.205	Full-Ni	Detection limit or PQL	-----	Std. devn.	368.928	Histogram	
6	12.9067	Full-Ni	Method detection limit		Median	63.8323	5 10 20	
7	13.3625	Full-Ni	TOTAL	227	Min.	2.5	Clear messages	
8	14	Full-Ni	ENTER DATA		Max	4300	Calculate UCL	
9	15.6513	Full-Ni	Distribution Decision					
10	17.1891	Full-Ni	Probability plot method		W test	D'Agostino's test	Lognormal	
11	17.4054	Full-Ni	Lognormal distribution?		Normal distribution?		Normal	
12	18	Full-Ni	r-squared is: 0.935		r-squared is: 0.345		Neither	
13	19	Full-Ni	Recommendations					
14	21.1	Full-Ni	Reject lognormal distribution.					
15	21.3777	Full-Ni	Y value is -8.6775. This lies outside the tabled values of 1.5225 and -2.3678					
16	21.6	Full-Ni	Reject normal distribution.					
17	22.786	Full-Ni	Y value is -70.2873. This lies outside the tabled values of 1.5225 and -2.3678					
18	23	Full-Ni	Upper Confidence Limit (UCL)					
19	24.5	Full-Ni						
20	24.5	Full-Ni						
21	25.252	Full-Ni						
22	26.957	Full-Ni						
23	27.2	Full-Ni						
24	27.309	Full-Ni						
25	27.313	Full-Ni						
26	28.2	Full-Ni						
27	28.991	Full-Ni						
28	29.3305	Full-Ni						
29	29.907	Full-Ni						
30	30	Full-Ni						
31	30.643	Full-Ni						
32	31.322	Full-Ni						
33	31.928	Full-Ni						
34	31.993	Full-Ni						
35	32.109	Full-Ni						
36	32.2	Full-Ni						
37	32.466	Full-Ni						
38	32.5301	Full-Ni						
39	32.614	Full-Ni						
40	32.9	Full-Ni						
41	33.506	Full-Ni						
42	34.5	Full-Ni						
43	35.376	Full-Ni						
44	35.6	Full-Ni						
45	35.964	Full-Ni						
46	36.1	Full-Ni						
47	36.9	Full-Ni						
48	37.084	Full-Ni						
49	37.8132	Full-Ni						
50	38.4058	Full-Ni						
51	39.2	Full-Ni						
52	39.5	Full-Ni						
53	40	Full-Ni						
54	40.039	Full-Ni						
55	40.1914	Full-Ni						
56	40.3001	Full-Ni						
57	40.5048	Full-Ni						
58	40.9	Full-Ni						
59	41.0349	Full-Ni						
60	41.2627	Full-Ni						
61	42.2	Full-Ni						
62	43.052	Full-Ni						
63	43.5	Full-Ni						
64	43.598	Full-Ni						
65	43.6	Full-Ni						
66	43.7	Full-Ni						
67	44	Full-Ni						



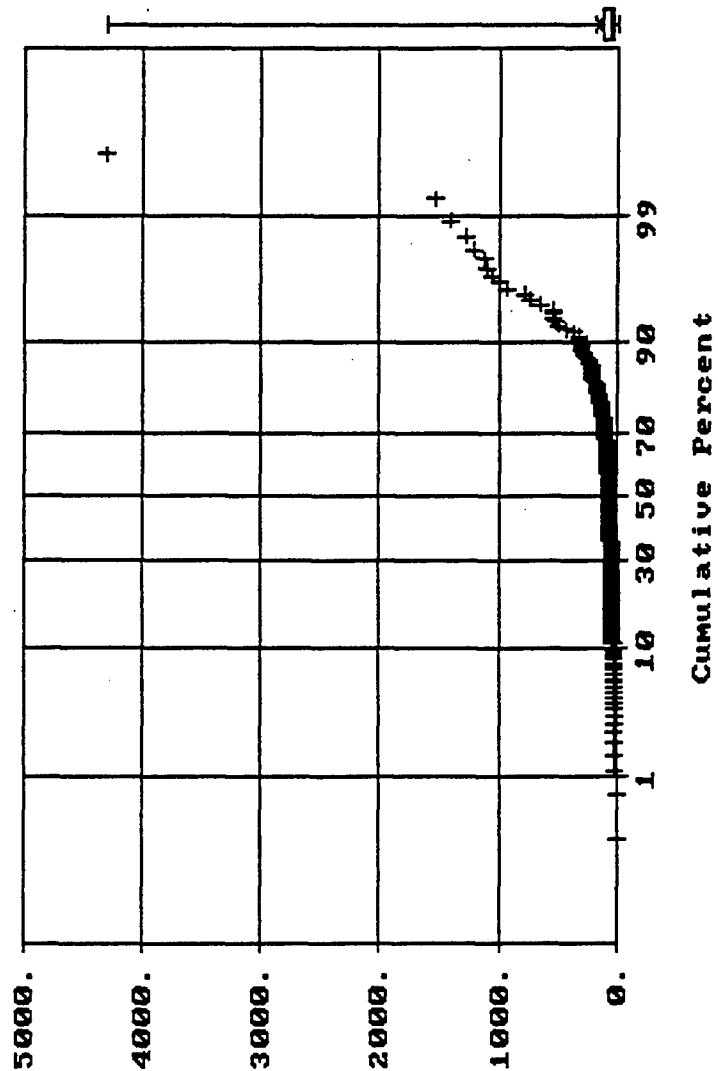
DAMES & MOORE

303 EAST 17TH AVENUE, SUITE 550, DENVER, COLORADO 80203
(303) 831-8868 FAX: (303) 831-8708

Normal Probability Plot for Nickel
Data file: fil-all.dat

Statistics

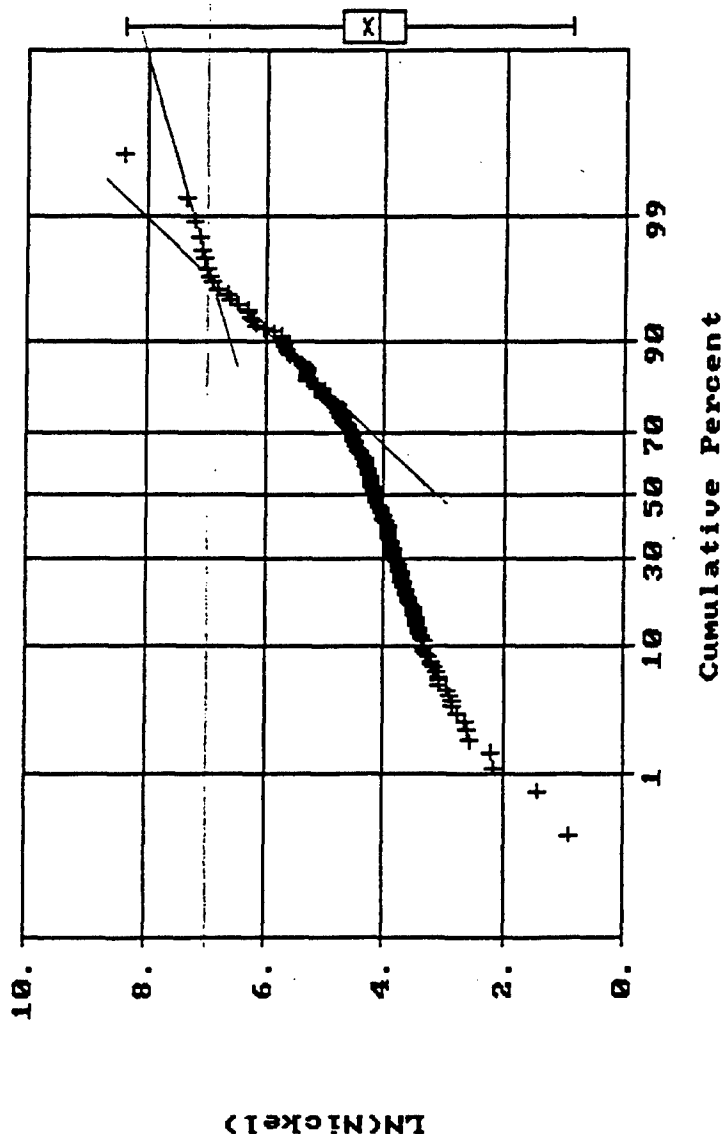
N Total	:	371
N Miss	:	144
N Used	:	227
Mean	:	162.477
Variance	:	136108.000
Std. Dev	:	368.928
% C.V.	:	227.065
Skewness	:	7.230
Kurtosis	:	73.226
Minimum	:	2.500
25th %	:	40.801
Median	:	63.832
75th %	:	114.821
Maximum	:	4300.000



Normal Probability Plot for LN(Nickel)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	144
N Used :	227
Mean :	4.330
Variance :	1.122
Std. Dev :	1.059
% C.V. :	24.462
Skewness :	.791
Kurtosis :	4.658
Minimum :	.916
25th % :	3.709
Median :	4.156
75th % :	4.743
Maximum :	8.366



	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.09	Fill-Pb	Number of samples		Uncensored values		Sort data	
3	1.82	Fill-Pb	Uncensored	371	Mean	372.806	Create report	
4	1.91	Fill-Pb	Censored		Lognormal mean	410.255	Clear all	
5	2.24	Fill-Pb	Detection limit or PQL	-----	Std. devn.	1008.236	Histogram	
6	2.33	Fill-Pb	Method detection limit	-----	Median	79.5	5	10
7	2.46	Fill-Pb	TOTAL	371	Min.	1.09	20	
8	3.02	Fill-Pb	ENTER DATA		Max	12065.431	Clear messages	
9	3.05	Fill-Pb	Distribution Decision					
10	3.4559	Fill-Pb	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	3.72	Fill-Pb	Lognormal distribution?		Normal distribution?		Lognormal	
12	3.72	Fill-Pb	r-squared is: 0.982		r-squared is: 0.350		Normal	
13	3.72	Fill-Pb	Recommendations:					
14	3.72	Fill-Pb	Reject lognormal distribution.					
15	3.72	Fill-Pb	Y value is 2.1562. This lies outside the tabled values of 1.6197 and -2.2822					
16	3.72	Fill-Pb	Reject normal distribution.					
17	3.85	Fill-Pb	Y value is -89.2251. This lies outside the tabled values of 1.6197 and -2.2822					
18	4.5	Fill-Pb	Upper Confidence Limit (UCL)					
19	4.51	Fill-Pb						
20	4.6	Fill-Pb						
21	4.64	Fill-Pb						
22	4.7052	Fill-Pb						
23	4.71	Fill-Pb						
24	4.94	Fill-Pb						
25	5.74	Fill-Pb						
26	5.82	Fill-Pb						
27	6.6	Fill-Pb						
28	6.6	Fill-Pb						
29	6.6488	Fill-Pb						
30	7.104	Fill-Pb						
31	7.6128	Fill-Pb						
32	8.2	Fill-Pb						
33	8.3133	Fill-Pb						
34	8.7	Fill-Pb						
35	9.304	Fill-Pb						
36	9.41	Fill-Pb						
37	10.4146	Fill-Pb						
38	10.937	Fill-Pb						
39	11.2	Fill-Pb						
40	11.3	Fill-Pb						
41	11.9	Fill-Pb						
42	12	Fill-Pb						
43	12	Fill-Pb						
44	12.301	Fill-Pb						
45	12.5	Fill-Pb						
46	12.5	Fill-Pb						
47	12.5	Fill-Pb						
48	12.5	Fill-Pb						
49	12.5	Fill-Pb						
50	12.5	Fill-Pb						
51	12.5	Fill-Pb						
52	12.5	Fill-Pb						
53	12.5	Fill-Pb						
54	12.5	Fill-Pb						
55	12.5	Fill-Pb						
56	12.5	Fill-Pb						
57	12.5	Fill-Pb						
58	12.5	Fill-Pb						
59	12.5	Fill-Pb						
60	12.5	Fill-Pb						
61	12.5	Fill-Pb						
62	12.5	Fill-Pb						
63	12.5	Fill-Pb						
64	12.5	Fill-Pb						
65	12.5	Fill-Pb						
66	12.5	Fill-Pb						
67	12.5	Fill-Pb						

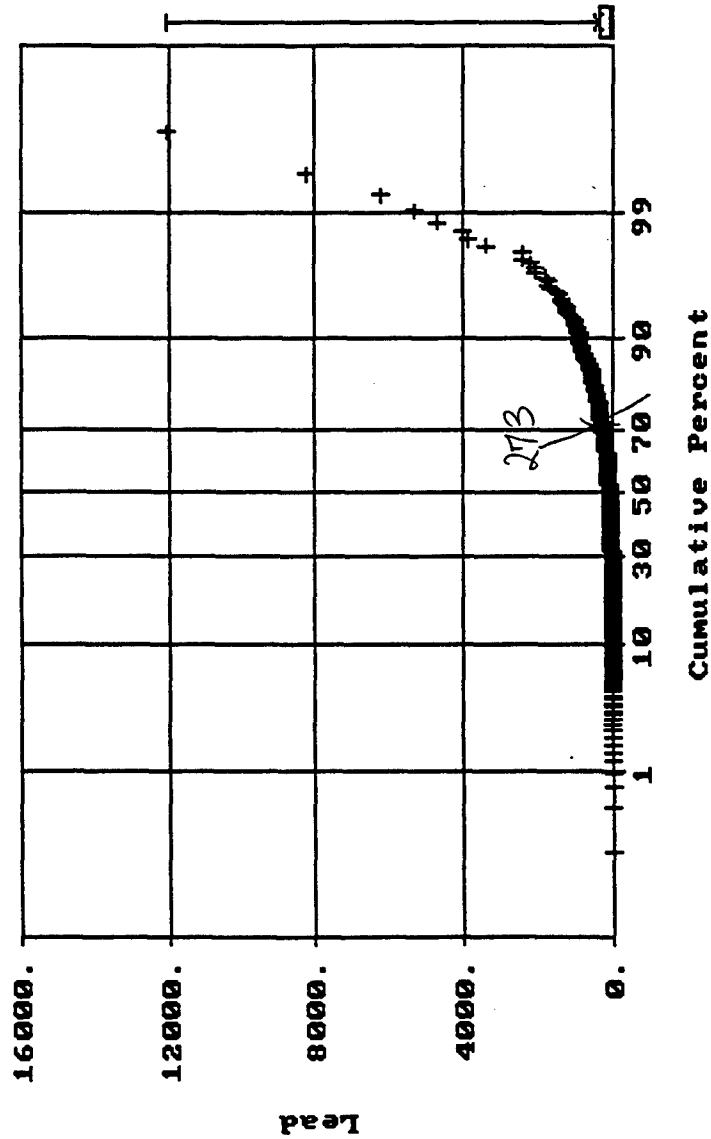
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	1.09	Fill-Pb	Number of samples		Uncensored values		Sort data	
3	1.82	Fill-Pb	Uncensored	371	Mean	372.808	Create report	
4	1.91	Fill-Pb	Censored		Lognormal mean	410.255	Clear all	
5	2.24	Fill-Pb	Detection limit or PQL		Std. devn.	1008.238	Histogram	
6	2.33	Fill-Pb	Method detection limit		Median	79.5	5 10 20	
7	2.46	Fill-Pb	TOTAL	371	Min.	1.09		
8	3.02	Fill-Pb	ENTER DATA		Max.	12065.431	Clear messages	
9	3.05	Fill-Pb	Distribution Decision				Calculate UCL	
10	3.4559	Fill-Pb	Probability plot method		W test	D'Agostino's test	Lognormal	
11	3.72	Fill-Pb	Lognormal distribution?		Normal distribution?		Normal	
12	3.72	Fill-Pb	r-squared is: 0.982		r-squared is: 0.350		Neither	
13	3.72	Fill-Pb	Recommendations				Sample size	
14	3.72	Fill-Pb	Use lognormal distribution.					
15	3.85	Fill-Pb						
16	4.5	Fill-Pb						
17	4.51	Fill-Pb						
18	4.6	Fill-Pb						
19	4.64	Fill-Pb						
20	4.7052	Fill-Pb	Upper Confidence Limit (UCL)					
21	4.71	Fill-Pb						
22	4.94	Fill-Pb						
23	5.74	Fill-Pb						
24	5.82	Fill-Pb						
25	6.6	Fill-Pb						
26	6.6	Fill-Pb						
27	6.6488	Fill-Pb						
28	7.104	Fill-Pb						
29	7.6128	Fill-Pb						
30	8.2	Fill-Pb						
31	8.3133	Fill-Pb						
32	8.7	Fill-Pb						
33	9.304	Fill-Pb						
34	9.41	Fill-Pb						
35	10.4146	Fill-Pb						
36	10.937	Fill-Pb						
37	11.2	Fill-Pb						
38	11.3	Fill-Pb						
39	11.9	Fill-Pb						
40	12	Fill-Pb						
41	12	Fill-Pb						
42	12.301	Fill-Pb						
43	12.5	Fill-Pb						
44	12.5	Fill-Pb						
45	12.5	Fill-Pb						
46	12.5	Fill-Pb						
47	12.5	Fill-Pb						
48	12.5	Fill-Pb						
49	12.5	Fill-Pb						
50	12.5	Fill-Pb						
51	12.5	Fill-Pb						
52	12.5	Fill-Pb						
53	12.5	Fill-Pb						
54	12.5	Fill-Pb						
55	12.5	Fill-Pb						
56	12.5	Fill-Pb						
57	12.5	Fill-Pb						
58	12.5	Fill-Pb						
59	12.5	Fill-Pb						
60	12.5	Fill-Pb						
61	12.5	Fill-Pb						
62	12.5	Fill-Pb						
63	12.5	Fill-Pb						
64	12.5	Fill-Pb						
65	12.5	Fill-Pb						
66	12.5	Fill-Pb						
67	12.5	Fill-Pb						

Normal Probability Plot for Lead
Data file: fil-all.dat

S t a t i s t i c s

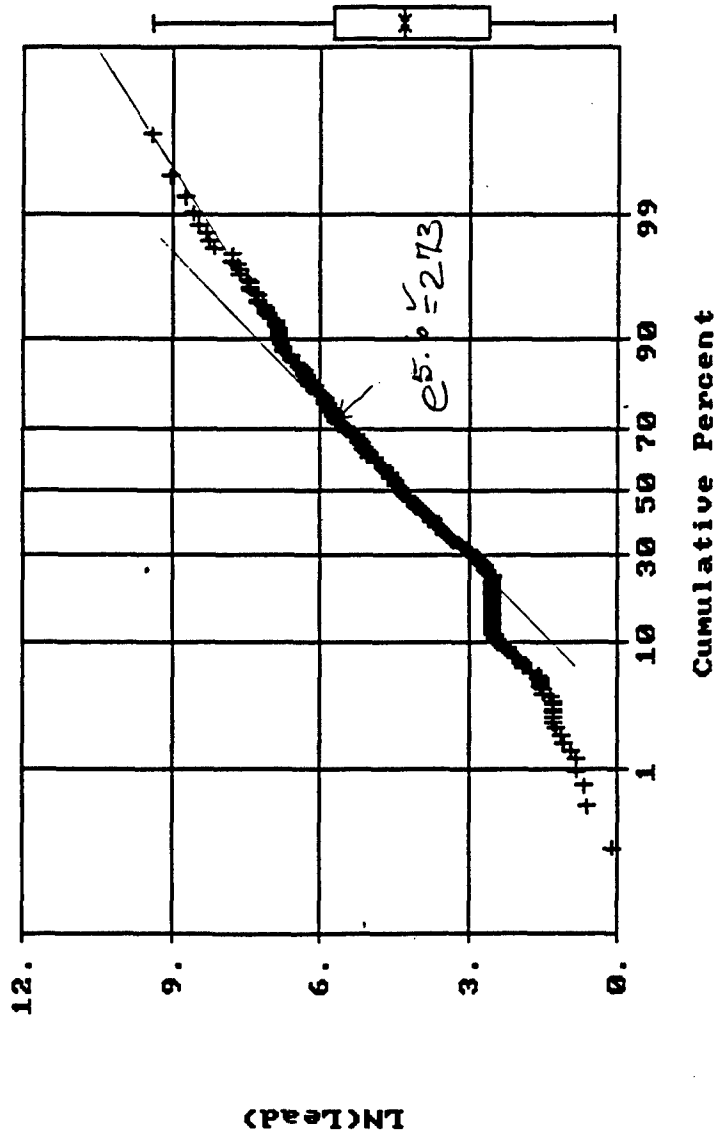
N Total :	371
N Miss :	0
N Used :	371
Mean :	372.806
Variance:	1016541.000
Std. Dev:	1008.236
% C.V. :	270.446
Skewness:	6.970
Kurtosis:	65.650
Minimum :	1.090
25th % :	14.000
Median :	79.500
75th % :	323.471
Maximum :	12065.430



Normal Probability Plot for LN(Lead)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	0
N Used :	371
Mean :	4.357
Variance:	3.320
Std. Dev:	1.822
% C.V. :	41.820
Skewness:	.173
Kurtosis:	2.309
Minimum :	.086
25th % :	2.639
Median :	4.376
75th % :	5.779
Maximum :	9.398



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Fill-Sb	Number of samples		Uncensored values		Sort data	
3	0.05	Fill-Sb	Uncensored	216	Mean	14.971	Create report	
4	0.05	Fill-Sb	Censored		Lognormal mean	23.607	Clear all	
5	0.1	Fill-Sb	Detection limit or PQL		Std. devn.	20.952	Histogram	
6	0.1294	Fill-Sb	Method detection limit		Median	9.8	5 10 20	
7	0.154	Fill-Sb	TOTAL	216	Min.	0.05		
8	0.2	Fill-Sb	ENTER DATA		Max	164.205		
9	0.2	Fill-Sb	Distribution Decision					
10	0.2	Fill-Sb	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-Sb	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-Sb	r-squared is: 0.777		r-squared is: 0.458			
13	0.2141	Fill-Sb	Recommendations:					
14	0.25	Fill-Sb	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.25	Fill-Sb						
16	0.25	Fill-Sb						
17	0.25	Fill-Sb						
18	0.25	Fill-Sb						
19	0.25	Fill-Sb						
20	0.25	Fill-Sb						
21	0.25	Fill-Sb						
22	0.25	Fill-Sb	Upper Confidence Limit (UCL)					
23	0.25	Fill-Sb						
24	0.25	Fill-Sb						
25	2.5	Fill-Sb						
26	2.5	Fill-Sb						
27	2.5	Fill-Sb						
28	2.5	Fill-Sb						
29	2.5	Fill-Sb						
30	2.5	Fill-Sb						
31	2.5	Fill-Sb						
32	2.5	Fill-Sb						
33	2.5	Fill-Sb						
34	2.5	Fill-Sb						
35	2.5	Fill-Sb						
36	2.5	Fill-Sb						
37	2.5	Fill-Sb						
38	2.5	Fill-Sb						
39	2.5	Fill-Sb						
40	2.5	Fill-Sb						
41	2.5	Fill-Sb						
42	2.5	Fill-Sb						
43	2.5	Fill-Sb						
44	2.5	Fill-Sb						
45	2.5	Fill-Sb						
46	2.5	Fill-Sb						
47	2.5	Fill-Sb						
48	2.5	Fill-Sb						
49	5.3	Fill-Sb						
50	5.6	Fill-Sb						
51	6.2	Fill-Sb						
52	9.8	Fill-Sb						
53	9.8	Fill-Sb						
54	9.8	Fill-Sb						
55	9.8	Fill-Sb						
56	9.8	Fill-Sb						
57	9.8	Fill-Sb						
58	9.8	Fill-Sb						
59	9.8	Fill-Sb						
60	9.8	Fill-Sb						
61	9.8	Fill-Sb						
62	9.8	Fill-Sb						
63	9.8	Fill-Sb						
64	9.8	Fill-Sb						
65	9.8	Fill-Sb						
66	9.8	Fill-Sb						
67	9.8	Fill-Sb						

Clear messages

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

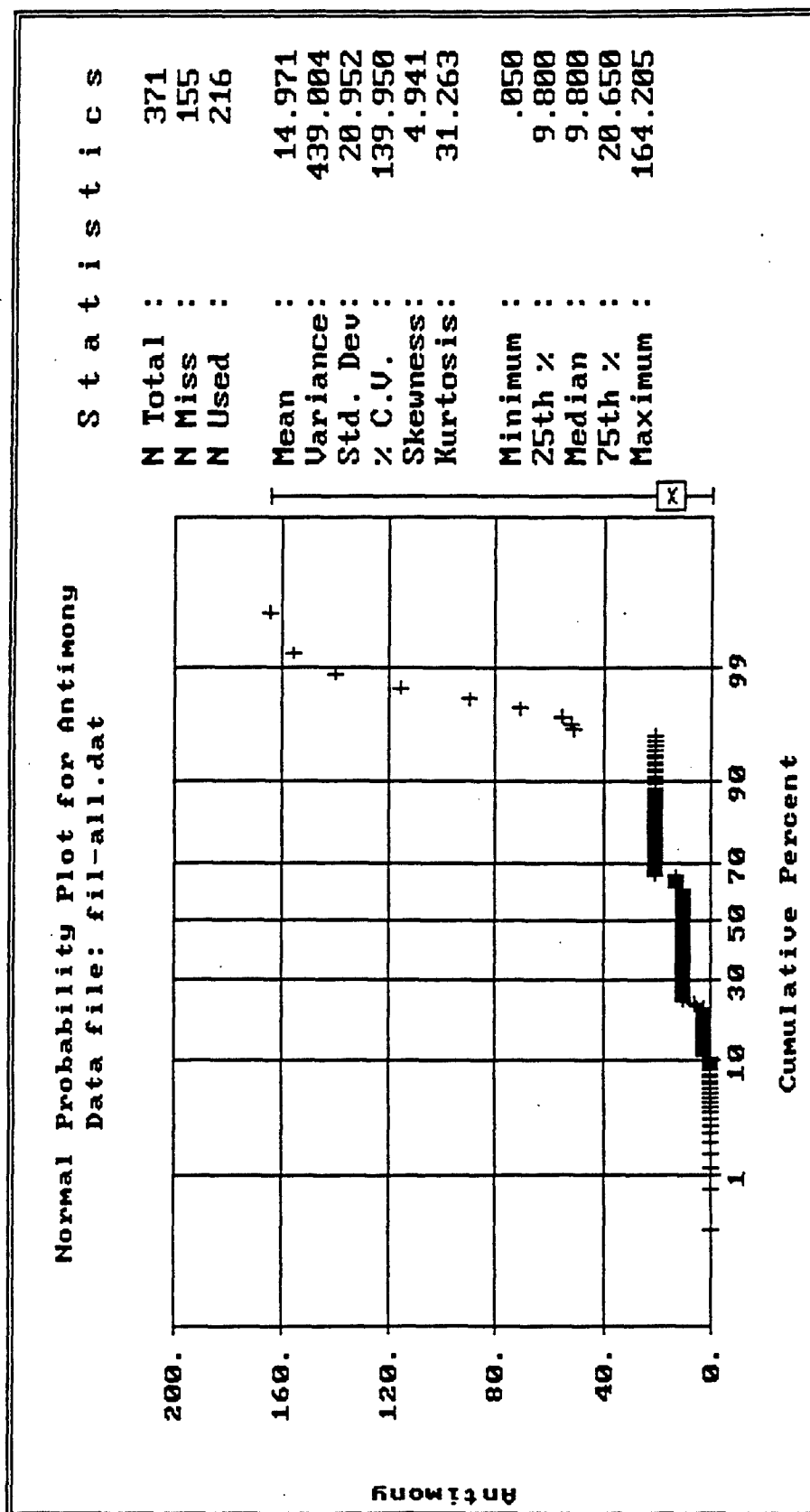
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.05	Fill-Sb	Number of samples		Uncensored values		Sort data	
3	0.05	Fill-Sb	Uncensored	216	Mean	14.971	Create report	
4	0.05	Fill-Sb	Censored		Lognormal mean	23.607	Clear all	
5	0.1	Fill-Sb	Detection limit or PQL	-----	Std. devn.	20.952	Histogram	
6	0.1294	Fill-Sb	Method detection limit	-----	Median	9.8	5 10 20	
7	0.154	Fill-Sb	TOTAL	216	Min.	0.05		
8	0.2	Fill-Sb	ENTER DATA		Max	164.205		
9	0.2	Fill-Sb	Distribution Decision					
10	0.2	Fill-Sb	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-Sb	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-Sb	r-squared is: 0.777		r-squared is: 0.458			
13	0.2141	Fill-Sb	Recommendations:					
14	0.25	Fill-Sb	Reject lognormal distribution.					
15	0.25	Fill-Sb	Y value is -21.1167. This lies outside the tabled values of 1.5117 and -2.3772					
16	0.25	Fill-Sb	Reject normal distribution.					
17	0.25	Fill-Sb	Y value is -54.5437. This lies outside the tabled values of 1.5117 and -2.3772					
18	0.25	Fill-Sb	Upper Confidence Limit (UCL)					
19	0.25	Fill-Sb						
20	0.25	Fill-Sb						
21	0.25	Fill-Sb						
22	0.25	Fill-Sb						
23	0.25	Fill-Sb						
24	0.25	Fill-Sb						
25	2.5	Fill-Sb						
26	2.5	Fill-Sb						
27	2.5	Fill-Sb						
28	2.5	Fill-Sb						
29	2.5	Fill-Sb						
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32	2.5	Fill-Sb						
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35	2.5	Fill-Sb						
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38	2.5	Fill-Sb						
39	2.5	Fill-Sb						
40	2.5	Fill-Sb						
41	2.5	Fill-Sb						
42	2.5	Fill-Sb						
43	2.5	Fill-Sb						
44	2.5	Fill-Sb						
45	2.5	Fill-Sb						
46	2.5	Fill-Sb						
47	2.5	Fill-Sb						
48	2.5	Fill-Sb						
49	5.3	Fill-Sb						
50	5.6	Fill-Sb						
51	6.2	Fill-Sb						
52	9.8	Fill-Sb						
53	9.8	Fill-Sb						
54	9.8	Fill-Sb						
55	9.8	Fill-Sb						
56	9.8	Fill-Sb						
57	9.8	Fill-Sb						
58	9.8	Fill-Sb						
59	9.8	Fill-Sb						
60	9.8	Fill-Sb						
61	9.8	Fill-Sb						
62	9.8	Fill-Sb						
63	9.8	Fill-Sb						
64	9.8	Fill-Sb						
65	9.8	Fill-Sb						
66	9.8	Fill-Sb						
67	9.8	Fill-Sb						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size



DAMES & MOORE

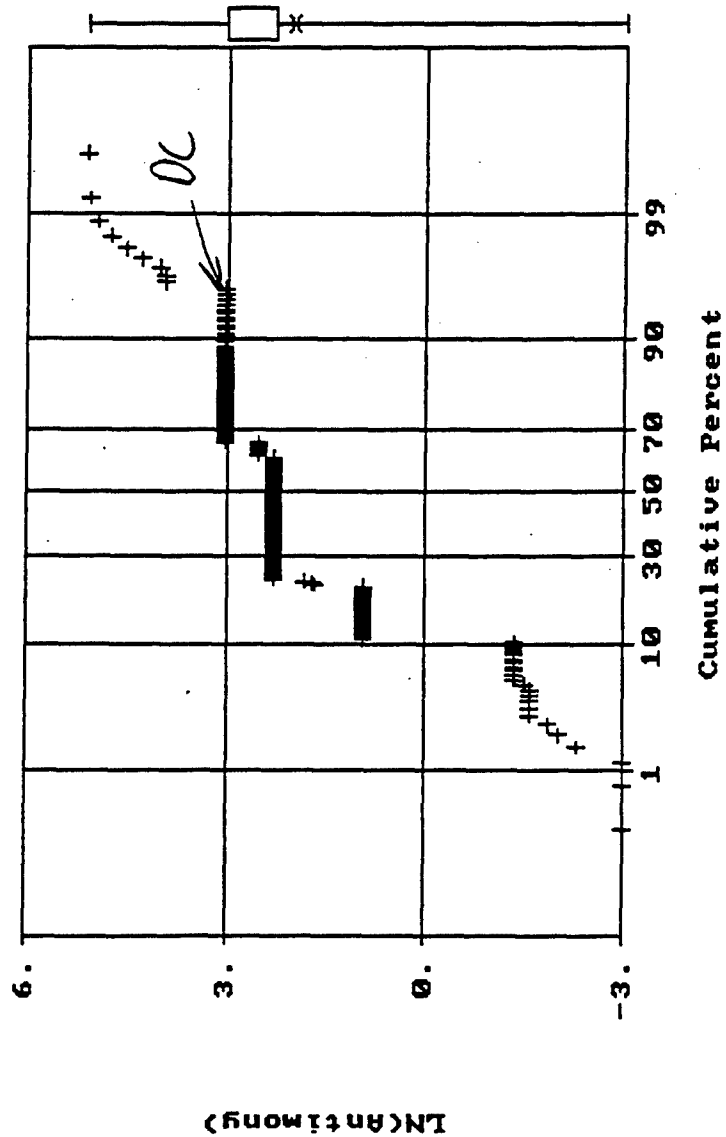
303 EAST 17TH AVENUE, SUITE 550, DENVER, COLORADO 80203
(303) 831-8868 FAX: (303) 831-8708



Normal Probability Plot for LN(Antimony)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	155
N Used :	216
Mean :	2.018
Variance :	2.287
Std. Dev :	1.512
% C.V. :	74.943
Skewness :	-1.502
Kurtosis :	5.147
Minimum :	-2.996
25th % :	2.282
Median :	2.282
75th % :	3.028
Maximum :	5.101



Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.125	Fill-Se	Number of samples		Uncensored values		Sort data	
3	0.125	Fill-Se	Uncensored	216	Mean	0.378	Create report	
4	0.125	Fill-Se	Censored		Lognormal mean	0.332	Clear all	
5	0.125	Fill-Se	Detection limit or PQL	-----	Std. devn.	0.617	Histogram	
6	0.125	Fill-Se	Method detection limit	-----	Median	0.2245	5	10
7	0.125	Fill-Se	TOTAL	216	Min.	0.125	20	
8	0.125	Fill-Se	ENTER DATA		Max	5.3701		
9	0.125	Fill-Se	Distribution Decision					
10	0.125	Fill-Se	Probability plot method		W test	D'Agostino's test		
11	0.125	Fill-Se	Lognormal distribution?		Normal distribution?			
12	0.125	Fill-Se	r-squared is: 0.798		r-squared is: 0.350			
13	0.125	Fill-Se	Recommendations:					
14	0.125	Fill-Se	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	0.125	Fill-Se						
16	0.125	Fill-Se						
17	0.125	Fill-Se						
18	0.125	Fill-Se						
19	0.125	Fill-Se						
20	0.125	Fill-Se						
21	0.125	Fill-Se						
22	0.125	Fill-Se	Upper Confidence Limit (UCL)					
23	0.125	Fill-Se						
24	0.125	Fill-Se						
25	0.125	Fill-Se						
26	0.125	Fill-Se						
27	0.125	Fill-Se						
28	0.125	Fill-Se						
29	0.125	Fill-Se						
30	0.125	Fill-Se						
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32	0.125	Fill-Se						
33	0.125	Fill-Se						
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35	0.125	Fill-Se						
36	0.125	Fill-Se						
37	0.125	Fill-Se						
38	0.125	Fill-Se						
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41	0.125	Fill-Se						
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43	0.125	Fill-Se						
44	0.125	Fill-Se						
45	0.125	Fill-Se						
46	0.125	Fill-Se						
47	0.125	Fill-Se						
48	0.125	Fill-Se						
49	0.125	Fill-Se						
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52	0.125	Fill-Se						
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54	0.125	Fill-Se						
55	0.208	Fill-Se						
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61	0.208	Fill-Se						
62	0.208	Fill-Se						
63	0.208	Fill-Se						
64	0.208	Fill-Se						
65	0.208	Fill-Se						
66	0.208	Fill-Se						
67	0.208	Fill-Se						

Clear messages

 Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Background data analysis

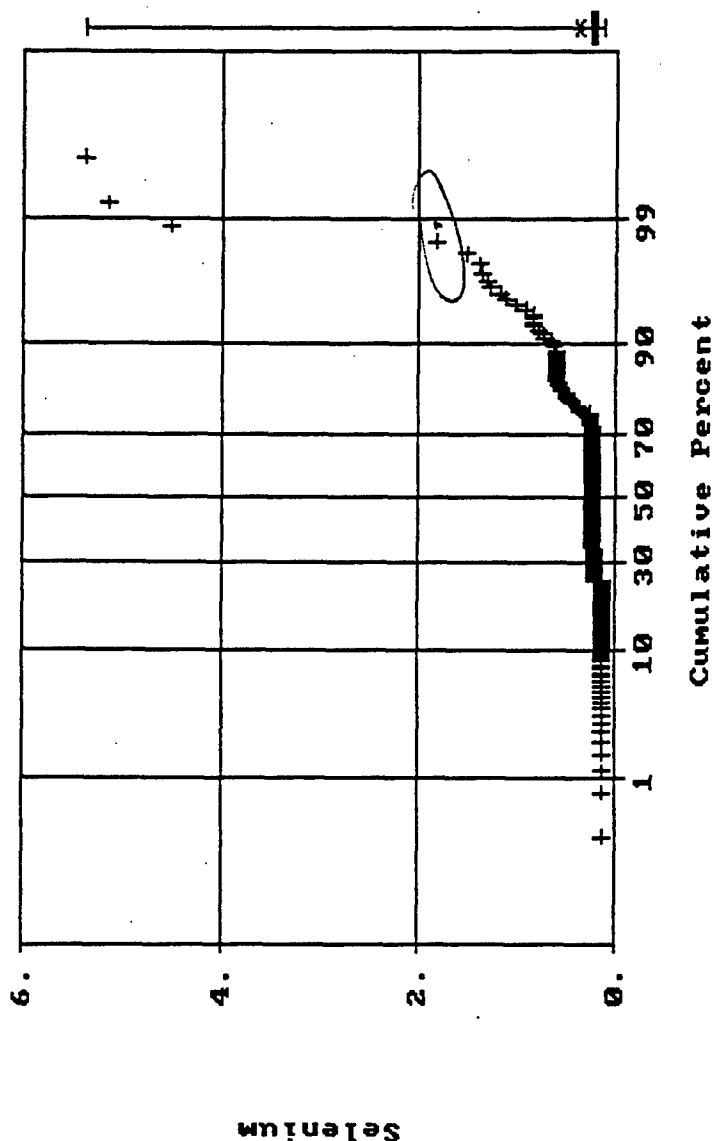
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0					
2	0.125	Fill-Se	Number of samples		Uncensored values		Paste values	
3	0.125	Fill-Se	Uncensored	216	Mean	0.378	Sort data	
4	0.125	Fill-Se	Censored	-----	Lognormal mean	0.332	Create report	
5	0.125	Fill-Se	Detection limit or PQL	-----	Std. devn.	0.617	Clear all	
6	0.125	Fill-Se	Method detection limit	-----	Median	0.2245	Histogram	
7	0.125	Fill-Se	TOTAL	216	Min.	0.125	5 10 20	
8	0.125	Fill-Se	ENTER DATA		Max.	5.3701		
9	0.125	Fill-Se	Distribution Decision					
10	0.125	Fill-Se	Probability plot method		W test	D'Agostino's test		
11	0.125	Fill-Se	Lognormal distribution?		Normal distribution?			
12	0.125	Fill-Se	r-squared is: 0.798		r-squared is: 0.350			
13	0.125	Fill-Se	Recommendations:					
14	0.125	Fill-Se	Reject lognormal distribution.					
15	0.125	Fill-Se	Y value is -17.2189. This lies outside the tabled values of 1.5117 and -2.3772					
16	0.125	Fill-Se	Reject normal distribution.					
17	0.125	Fill-Se	Y value is -67.7123. This lies outside the tabled values of 1.5117 and -2.3772					
18	0.125	Fill-Se	Upper Confidence Limit (UCL)					
19	0.125	Fill-Se						
20	0.125	Fill-Se						
21	0.125	Fill-Se						
22	0.125	Fill-Se						
23	0.125	Fill-Se						
24	0.125	Fill-Se						
25	0.125	Fill-Se						
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27	0.125	Fill-Se						
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52	0.125	Fill-Se						
53	0.125	Fill-Se						
54	0.125	Fill-Se						
55	0.208	Fill-Se						
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63	0.208	Fill-Se						
64	0.208	Fill-Se						
65	0.208	Fill-Se						
66	0.208	Fill-Se						
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Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Selenium
Data file: fil-all.dat

Statistics

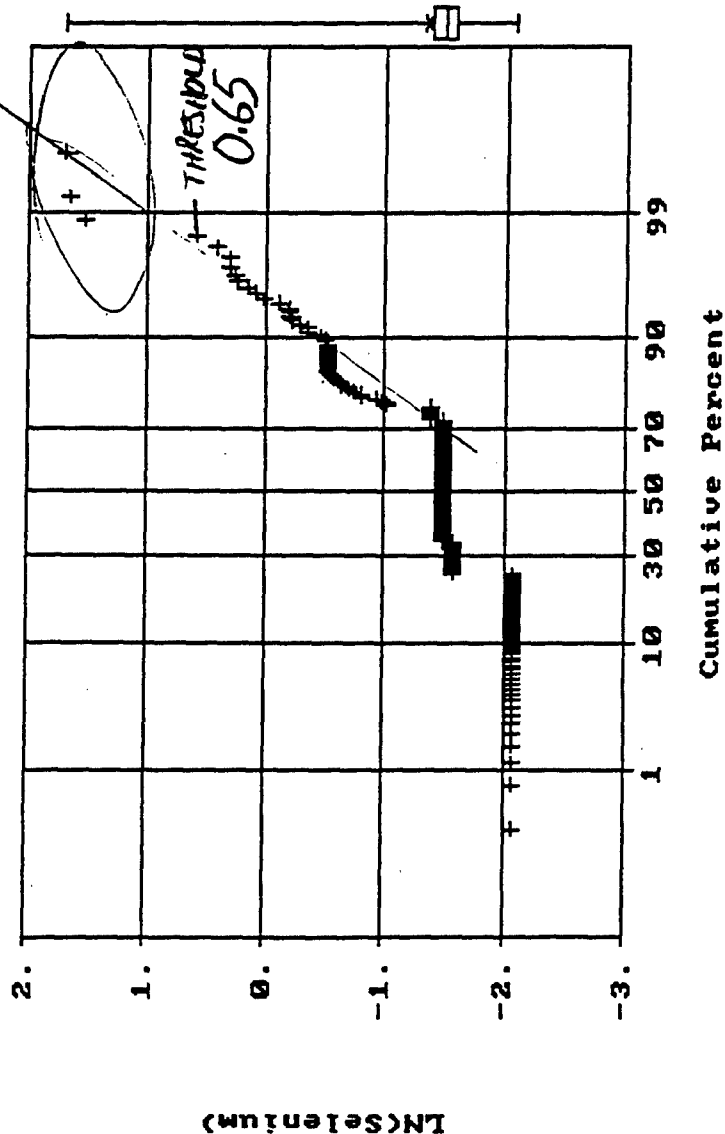
N Total :	371
N Miss :	155
N Used :	216
Mean :	.378
Variance:	.380
Std. Dev:	.617
% C.V. :	163.138
Skewness:	6.210
Kurtosis:	46.649
Minimum :	.125
25th % :	.208
Median :	.225
75th % :	.250
Maximum :	5.370



Normal Probability Plot for LN(Selenium)
Data file: fil-all.dat

Statistics

N Total :	371
N Miss :	155
N Used :	216
Mean :	-1.354
Variance:	.502
Std. Dev:	.708
% C.V. :	52.337
Skewness:	1.595
Kurtosis:	6.235
Minimum :	-2.079
25th % :	-1.570
Median :	-1.494
75th % :	-1.386
Maximum :	1.681



65
e^{-1.9}

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Fill-Ag	Number of samples		Uncensored values		Sort data	
3	0.005	Fill-Ag	Uncensored	227	Mean	15.275	Create report	
4	0.005	Fill-Ag	Censored		Lognormal mean	1.015	Clear all	
5	0.005	Fill-Ag	Detection limit or PQL		Std. devn.	214.135	Histogram	
6	0.005	Fill-Ag	Method detection limit		Median	0.4015	5 10 20	
7	0.2	Fill-Ag	TOTAL	227	Min.	0.005		
8	0.2	Fill-Ag	ENTER DATA		Max.	3227.0408		
9	0.2	Fill-Ag	Distribution Decision					
10	0.2	Fill-Ag	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-Ag	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-Ag	r-squared is: 0.692		r-squared is: 0.037			
13	0.2	Fill-Ag	Recommendations:				Clear messages	
14	0.2	Fill-Ag	Reject BOTH lognormal and normal distributions. See Statistics Guidance.				Calculate UCL	
15	0.2	Fill-Ag					Lognormal	
16	0.25	Fill-Ag					Normal	
17	0.25	Fill-Ag					Neither	
18	0.25	Fill-Ag					Sample size	
19	0.25	Fill-Ag						
20	0.25	Fill-Ag						
21	0.25	Fill-Ag						
22	0.25	Fill-Ag						
23	0.25	Fill-Ag						
24	0.25	Fill-Ag						
25	0.25	Fill-Ag						
26	0.25	Fill-Ag						
27	0.25	Fill-Ag						
28	0.25	Fill-Ag						
29	0.25	Fill-Ag						
30	0.25	Fill-Ag						
31	0.25	Fill-Ag						
32	0.25	Fill-Ag						
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35	0.25	Fill-Ag						
36	0.25	Fill-Ag						
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61	0.25	Fill-Ag						
62	0.25	Fill-Ag						
63	0.25	Fill-Ag						
64	0.2605	Fill-Ag						
65	0.2605	Fill-Ag						
66	0.2605	Fill-Ag						
67	0.2605	Fill-Ag						

Background data analysis

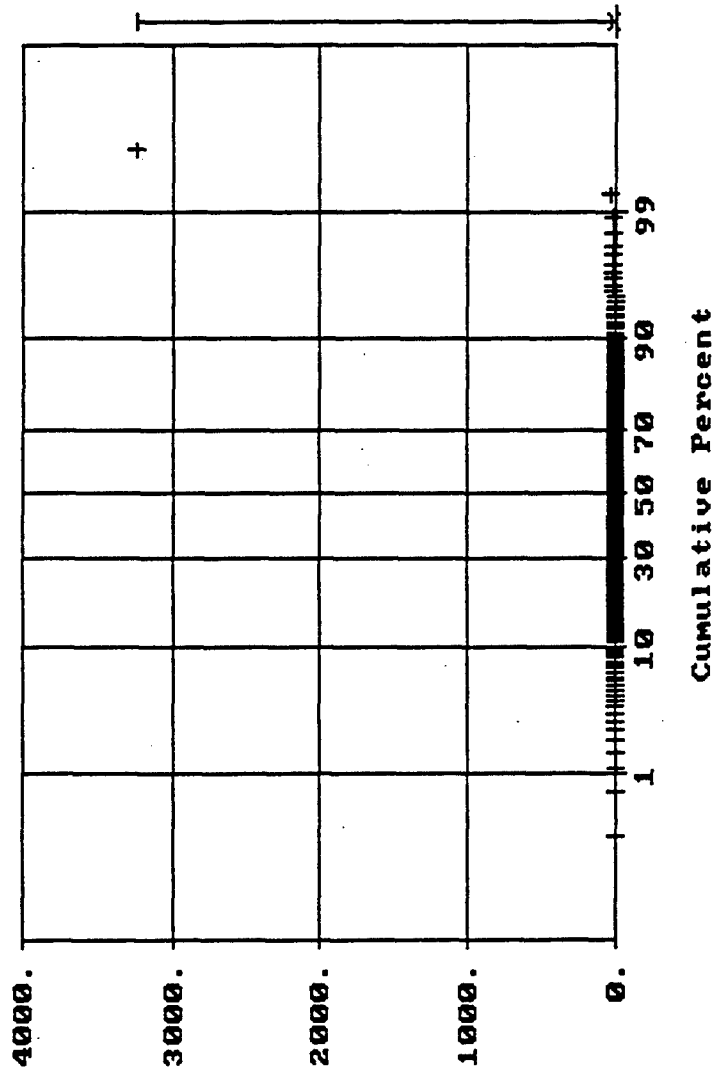
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.005	Fill-Ag	Number of samples		Uncensored values		Sort data	
3	0.005	Fill-Ag	Uncensored	227	Mean	15.275	Create report	
4	0.005	Fill-Ag	Censored		Lognormal mean	1.015	Clear all	
5	0.005	Fill-Ag	Detection limit or PQL		Std. devn.	214.135	Histogram	
6	0.005	Fill-Ag	Method detection limit		Median	0.4015	5 10 20	
7	0.2	Fill-Ag	TOTAL	227	Min.	0.005		
8	0.2	Fill-Ag	ENTER DATA		Max	3227.0408		
9	0.2	Fill-Ag	Distribution Decision					
10	0.2	Fill-Ag	Probability plot method		W test	D'Agostino's test		
11	0.2	Fill-Ag	Lognormal distribution?		Normal distribution?			
12	0.2	Fill-Ag	r-squared is: 0.692		r-squared is: 0.037			
13	0.2	Fill-Ag	Recommendations:					
14	0.2	Fill-Ag	Reject lognormal distribution.					
15	0.2	Fill-Ag	Y value is -35.1047. This lies outside the tabled values of 1.5225 and -2.3678					
16	0.2	Fill-Ag	Reject normal distribution.					
17	0.2	Fill-Ag	Y value is -124.2586. This lies outside the tabled values of 1.5225 and -2.3678					
18	0.25	Fill-Ag	Upper Confidence Limit (UCL)					
19	0.25	Fill-Ag						
20	0.25	Fill-Ag						
21	0.25	Fill-Ag						
22	0.25	Fill-Ag						
23	0.25	Fill-Ag						
24	0.25	Fill-Ag						
25	0.25	Fill-Ag						
26	0.25	Fill-Ag						
27	0.25	Fill-Ag						
28	0.25	Fill-Ag						
29	0.25	Fill-Ag						
30	0.25	Fill-Ag						
31	0.25	Fill-Ag						
32	0.25	Fill-Ag						
33	0.25	Fill-Ag						
34	0.25	Fill-Ag						
35	0.25	Fill-Ag						
36	0.25	Fill-Ag						
37	0.25	Fill-Ag						
38	0.25	Fill-Ag						
39	0.25	Fill-Ag						
40	0.25	Fill-Ag						
41	0.25	Fill-Ag						
42	0.25	Fill-Ag						
43	0.25	Fill-Ag						
44	0.25	Fill-Ag						
45	0.25	Fill-Ag						
46	0.25	Fill-Ag						
47	0.25	Fill-Ag						
48	0.25	Fill-Ag						
49	0.25	Fill-Ag						
50	0.25	Fill-Ag						
51	0.25	Fill-Ag						
52	0.25	Fill-Ag						
53	0.25	Fill-Ag						
54	0.25	Fill-Ag						
55	0.25	Fill-Ag						
56	0.25	Fill-Ag						
57	0.25	Fill-Ag						
58	0.25	Fill-Ag						
59	0.25	Fill-Ag						
60	0.25	Fill-Ag						
61	0.25	Fill-Ag						
62	0.25	Fill-Ag						
63	0.25	Fill-Ag						
64	0.2605	Fill-Ag						
65	0.2605	Fill-Ag						
66	0.2605	Fill-Ag						
67	0.2605	Fill-Ag						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

Normal Probability Plot for Silver
Data file: fil-all.dat

S t a t i s t i c s

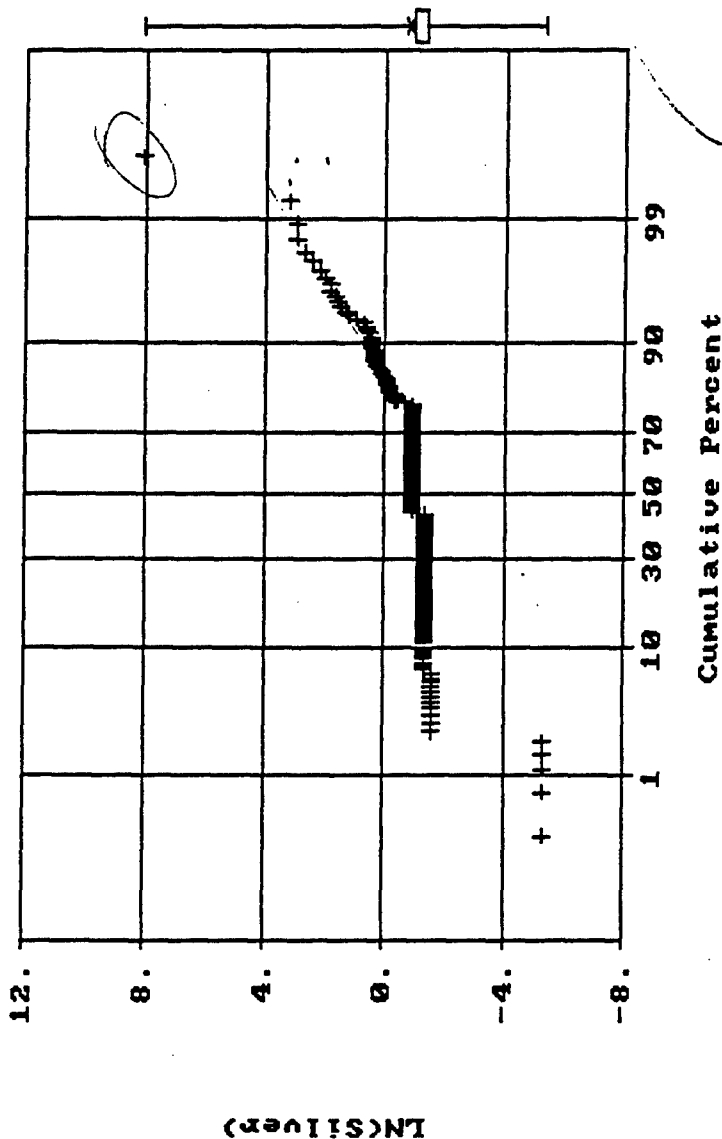
N Total :	371
N Miss :	144
N Used :	227
Mean :	15.275
Variance:	45853.870
Std. Dev:	214.135
% C.V. :	1401.912
Skewness:	14.963
Kurtosis:	224.922
Minimum :	.005
25th % :	.250
Median :	.401
75th % :	.401
Maximum :	3227.041



Normal Probability Plot for LN(Silver)
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	-.819
Variance:	1.667
Std. Dev:	1.291
% C.V. :	157.739
Skewness:	1.409
Kurtosis:	15.484
Minimum :	-5.298
25th % :	-1.386
Median :	-.913
75th % :	-.913
Maximum :	8.079



$e^{3.2} \sim 25$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCAStat Site Module V2.0				Paste values	
2	0.081	Full-T1	Number of samples				Sort data	
3	0.081	Full-T1	Uncensored values				Create report	
4	0.081	Full-T1	Uncensored	156	Mean	10.535	Clear all	
5	0.081	Full-T1	Censored		Lognormal mean	39.821	Histogram	
6	0.081	Full-T1	Detection limit or PQL		Std. devn.	10.775	5 10 20	
7	0.081	Full-T1	Method detection limit		Median	17.15	Clear messages	
8	0.081	Full-T1	TOTAL	156	Min.	0.081	Calculate UCL	
9	0.081	Full-T1	ENTER DATA		Max	100	Lognormal	
10	0.081	Full-T1	Distribution Decision				Normal	
11	0.081	Full-T1	Probability plot method				Neither	
12	0.081	Full-T1	W test				Sample size	
13	0.081	Full-T1	D'Agostino's test					
14	0.081	Full-T1	Lognormal distribution?					
15	0.081	Full-T1	Normal distribution?					
16	0.081	Full-T1	r-squared is: 0.715					
17	0.081	Full-T1	r-squared is: 0.560					
18	0.081	Full-T1	Recommendations					
19	0.081	Full-T1	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
20	0.081	Full-T1						
21	0.081	Full-T1						
22	0.081	Full-T1	Upper Confidence Limit (UCL)					
23	0.081	Full-T1						
24	0.081	Full-T1						
25	0.081	Full-T1						
26	0.081	Full-T1						
27	0.081	Full-T1						
28	0.081	Full-T1						
29	0.081	Full-T1						
30	0.081	Full-T1						
31	0.081	Full-T1						
32	0.081	Full-T1						
33	0.081	Full-T1						
34	0.081	Full-T1						
35	0.081	Full-T1						
36	0.081	Full-T1						
37	0.1	Full-T1						
38	0.1	Full-T1						
39	0.1	Full-T1						
40	0.1	Full-T1						
41	0.1	Full-T1						
42	0.25	Full-T1						
43	0.25	Full-T1						
44	2.5	Full-T1						
45	2.5	Full-T1						
46	2.5	Full-T1						
47	2.5	Full-T1						
48	2.5	Full-T1						
49	2.5	Full-T1						
50	2.5	Full-T1						
51	2.5	Full-T1						
52	2.5	Full-T1						
53	2.5	Full-T1						
54	2.5	Full-T1						
55	2.5	Full-T1						
56	2.5	Full-T1						
57	2.5	Full-T1						
58	2.5	Full-T1						
59	2.5	Full-T1						
60	2.5	Full-T1						
61	2.5	Full-T1						
62	2.5	Full-T1						
63	2.5	Full-T1						
64	2.5	Full-T1						
65	2.5	Full-T1						
66	2.5	Full-T1						
67	2.5	Full-T1						

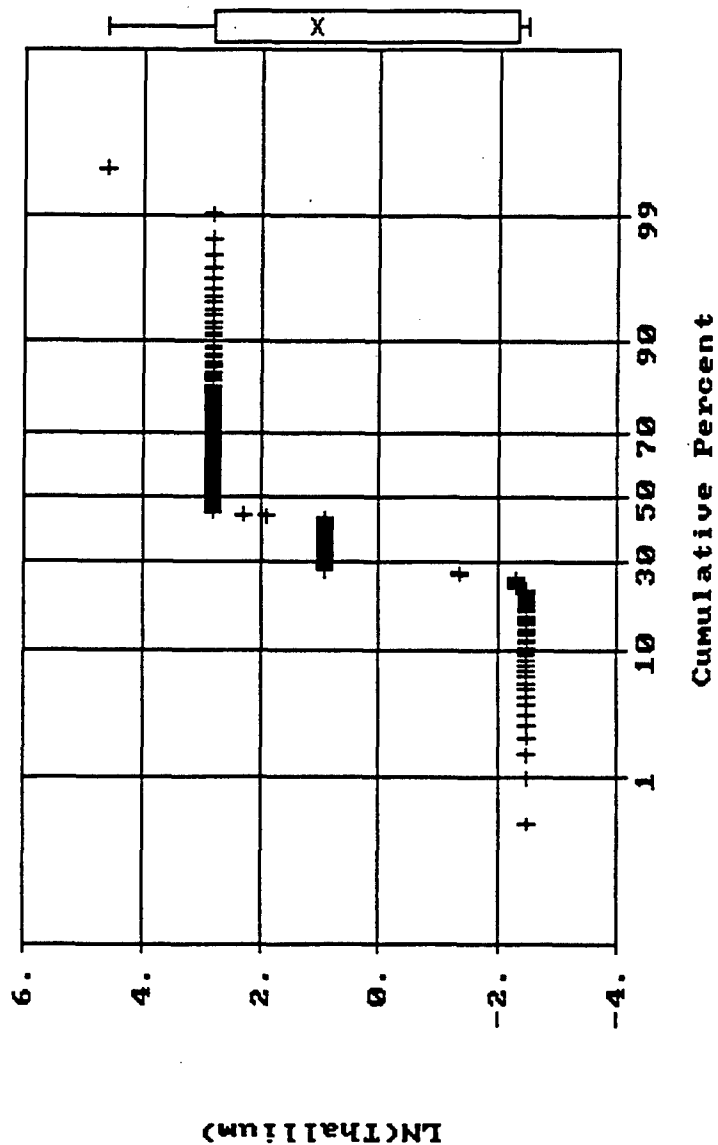
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.081	Full-TI	Number of samples		Uncensored values		Sort data	
3	0.081	Full-TI	Uncensored	156	Mean	10.535	Create report	
4	0.081	Full-TI	Censored		Lognormal mean	39.821	Clear all	
5	0.081	Full-TI	Detection limit or PQL		Std. devn.	10.775	Histogram	
6	0.081	Full-TI	Method detection limit		Median	17.15	5 10 20	
7	0.081	Full-TI	TOTAL	156	Min.	0.081	Clear messages	
8	0.081	Full-TI	ENTER DATA		Max	100	Calculate UCL	
9	0.081	Full-TI	Distribution Decision				Lognormal	
10	0.081	Full-TI	Probability plot method		W test	D'Agostino's test	Normal	
11	0.081	Full-TI	Lognormal distribution?		Normal distribution?		Neither	
12	0.081	Full-TI	r-squared is: 0.715		r-squared is: 0.560		Sample size	
13	0.081	Full-TI	Recommendations					
14	0.081	Full-TI	Reject lognormal distribution.					
15	0.081	Full-TI	Y value is -11.7448. This lies outside the tabled values of 1.4318 and -2.4447					
16	0.081	Full-TI	Reject normal distribution.					
17	0.081	Full-TI	Y value is -27.9638. This lies outside the tabled values of 1.4318 and -2.4447					
18	0.081	Full-TI	Upper Confidence Limit (UCL)					
19	0.081	Full-TI						
20	0.081	Full-TI						
21	0.081	Full-TI						
22	0.081	Full-TI						
23	0.081	Full-TI						
24	0.081	Full-TI						
25	0.081	Full-TI						
26	0.081	Full-TI						
27	0.081	Full-TI						
28	0.081	Full-TI						
29	0.081	Full-TI						
30	0.081	Full-TI						
31	0.081	Full-TI						
32	0.081	Full-TI						
33	0.081	Full-TI						
34	0.081	Full-TI						
35	0.081	Full-TI						
36	0.081	Full-TI						
37	0.1	Full-TI						
38	0.1	Full-TI						
39	0.1	Full-TI						
40	0.1	Full-TI						
41	0.1	Full-TI						
42	0.25	Full-TI						
43	0.25	Full-TI						
44	2.5	Full-TI						
45	2.5	Full-TI						
46	2.5	Full-TI						
47	2.5	Full-TI						
48	2.5	Full-TI						
49	2.5	Full-TI						
50	2.5	Full-TI						
51	2.5	Full-TI						
52	2.5	Full-TI						
53	2.5	Full-TI						
54	2.5	Full-TI						
55	2.5	Full-TI						
56	2.5	Full-TI						
57	2.5	Full-TI						
58	2.5	Full-TI						
59	2.5	Full-TI						
60	2.5	Full-TI						
61	2.5	Full-TI						
62	2.5	Full-TI						
63	2.5	Full-TI						
64	2.5	Full-TI						
65	2.5	Full-TI						
66	2.5	Full-TI						
67	2.5	Full-TI						

Normal Probability Plot for LN(Thallium)
Data file: fil-all.dat

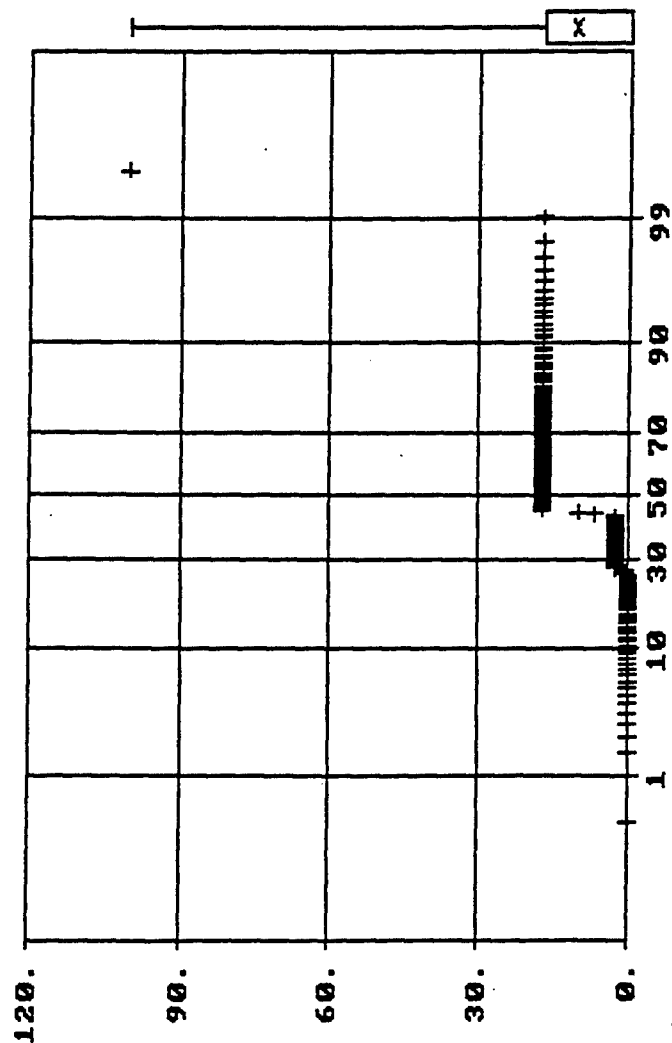
S t a t i s t i c s

N Total :	371
N Miss :	215
N Used :	156
Mean :	1.102
Variance:	5.164
Std. Dev:	2.272
% C.V. :	206.140
Skewness:	-.767
Kurtosis:	1.866
Minimum :	-2.513
25th % :	-2.303
Median :	2.842
75th % :	2.842
Maximum :	4.605



ALL DETECTS

Normal Probability Plot for Thallium
Data file: fil-all.dat



Statistics

N Total :	371
N Miss :	215
N Used :	156
Mean :	10.535
Variance:	116.108
Std. Dev:	10.775
% C.V. :	102.286
Skewness:	3.514
Kurtosis:	31.229
Minimum :	.081
25th % :	.100
Median :	17.150
75th % :	17.150
Maximum :	100.000

$DL = 34(17'x2)$

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0344	Fill-V	Number of samples		Uncensored values		Sort data	
3	3.1	Fill-V	Uncensored	227	Mean	56.240	Create report	
4	4.7	Fill-V	Censored		Lognormal mean	62.589	Clear all	
5	4.958	Fill-V	Detection limit or PQL		Std. devn.	33.881	Histogram	
6	5.96	Fill-V	Method detection limit		Median	51.44	5	10
7	8.874	Fill-V	TOTAL	227	Min.	0.0344	20	
8	15	Fill-V	ENTER DATA		Max.	300.021		
9	15	Fill-V	Distribution Decision					
10	16.2708	Fill-V	Probability plot method		W test	D'Agostino's test		
11	16.5414	Fill-V	Lognormal distribution?		Normal distribution?			
12	19	Fill-V	r-squared is: 0.710		r-squared is: 0.794		Clear messages	
13	19.8725	Fill-V	Recommendations:					
14	20.3	Fill-V	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	20.3	Fill-V						
16	21.7768	Fill-V						
17	21.8004	Fill-V						
18	22.4	Fill-V						
19	23	Fill-V						
20	23.4504	Fill-V						
21	23.5	Fill-V						
22	24.637	Fill-V						
23	25.9901	Fill-V						
24	26.1275	Fill-V						
25	26.6936	Fill-V						
26	27.0526	Fill-V						
27	27.45	Fill-V						
28	27.5	Fill-V						
29	27.8204	Fill-V						
30	27.9743	Fill-V						
31	28	Fill-V						
32	28.1	Fill-V						
33	28.128	Fill-V						
34	28.2563	Fill-V						
35	28.5	Fill-V						
36	29.1	Fill-V						
37	29.808	Fill-V						
38	30	Fill-V						
39	31	Fill-V						
40	31	Fill-V						
41	31.2432	Fill-V						
42	32	Fill-V						
43	32	Fill-V						
44	32.5	Fill-V						
45	32.5482	Fill-V						
46	33	Fill-V						
47	33	Fill-V						
48	34	Fill-V						
49	34.398	Fill-V						
50	34.41	Fill-V						
51	35.295	Fill-V						
52	35.516	Fill-V						
53	35.58	Fill-V						
54	35.9	Fill-V						
55	35.9694	Fill-V						
56	36.402	Fill-V						
57	36.4183	Fill-V						
58	36.6	Fill-V						
59	36.8	Fill-V						
60	36.8116	Fill-V						
61	38	Fill-V						
62	38	Fill-V						
63	38.383	Fill-V						
64	38.4	Fill-V						
65	38.6364	Fill-V						
66	38.9381	Fill-V						
67	38.949	Fill-V						

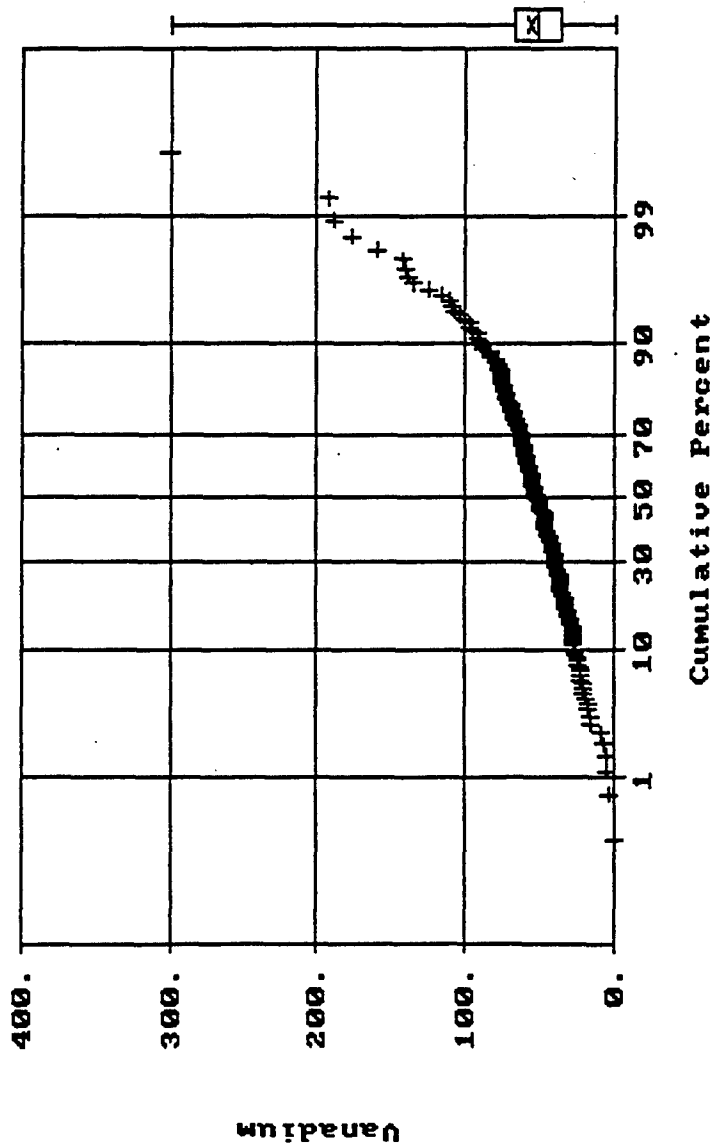
Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.0344	Full-V	Number of samples		Uncensored values		Sort data	
3	3.1	Full-V	Uncensored	227	Mean	56.240	Create report	
4	4.7	Full-V	Censored		Lognormal mean	62.589	Clear all	
5	4.958	Full-V	Detection limit or PQL	-----	Std. devn.	33.881	Histogram	
6	5.96	Full-V	Method detection limit		Median	51.44	5	10
7	8.874	Full-V	TOTAL	227	Min.	0.0344	20	
8	15	Full-V	ENTER DATA		Max	300.021	Clear messages	
9	15	Full-V	Distribution Decision					
10	16.2708	Full-V	Probability plot method		W test	D'Agostino's test	Calculate UCL	
11	16.5414	Full-V	Lognormal distribution?		Normal distribution?		Lognormal	
12	19	Full-V	r-squared is: 0.710		r-squared is: 0.794		Normal	
13	19.8725	Full-V	Recommendations:					
14	20.3	Full-V	Reject lognormal distribution.					
15	20.3	Full-V	Y value is -31.0567. This lies outside the table values of 1.5225 and -2.3678					
16	21.7768	Full-V	Reject normal distribution.					
17	21.8004	Full-V	Y value is -22.0425. This lies outside the table values of 1.5225 and -2.3678					
18	22.4	Full-V	Upper Confidence Limit (UCL)					
19	23	Full-V						
20	23.4504	Full-V						
21	23.5	Full-V						
22	24.637	Full-V						
23	25.9901	Full-V						
24	26.1275	Full-V						
25	26.6936	Full-V						
26	27.0526	Full-V						
27	27.45	Full-V						
28	27.5	Full-V						
29	27.8204	Full-V						
30	27.9743	Full-V						
31	28	Full-V						
32	28.1	Full-V						
33	28.128	Full-V						
34	28.2563	Full-V						
35	28.5	Full-V						
36	29.1	Full-V						
37	29.808	Full-V						
38	30	Full-V						
39	31	Full-V						
40	31	Full-V						
41	31.2432	Full-V						
42	32	Full-V						
43	32	Full-V						
44	32.5	Full-V						
45	32.5482	Full-V						
46	33	Full-V						
47	33	Full-V						
48	34	Full-V						
49	34.398	Full-V						
50	34.41	Full-V						
51	35.295	Full-V						
52	35.516	Full-V						
53	35.58	Full-V						
54	35.9	Full-V						
55	35.9694	Full-V						
56	36.402	Full-V						
57	36.4183	Full-V						
58	36.6	Full-V						
59	36.8	Full-V						
60	36.8116	Full-V						
61	38	Full-V						
62	38	Full-V						
63	38.383	Full-V						
64	38.4	Full-V						
65	38.6364	Full-V						
66	38.9381	Full-V						
67	38.949	Full-V						

Normal Probability Plot for Vanadium
Data file: fil-all.dat

S t a t i s t i c s

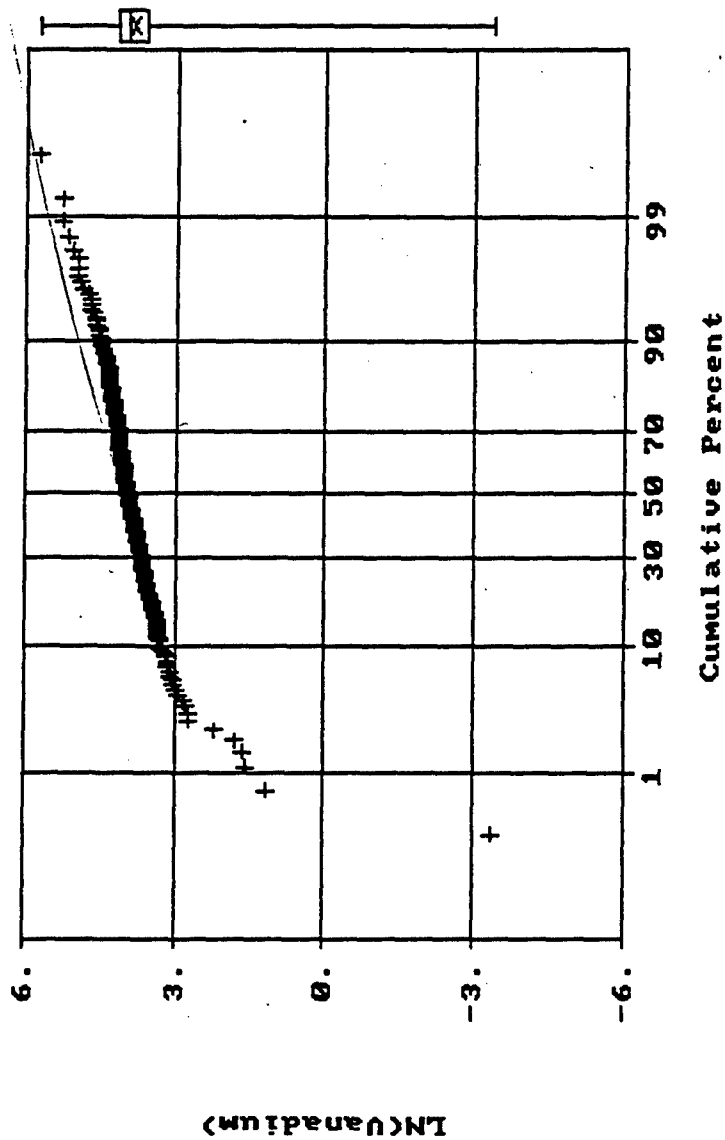
N Total :	371
N Miss :	144
N Used :	227
Mean :	56.240
Variance:	1147.922
Std. Dev:	33.881
% C.V. :	60.244
Skewness:	2.713
Kurtosis:	16.341
Minimum :	.034
25th % :	36.555
Median :	51.440
75th % :	66.332
Maximum :	300.021



Normal Probability Plot for LN(Uanadium)
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	144
N Used :	227
Mean :	3.850
Variance:	.574
Std. Dev:	.758
% C.V. :	19.677
Skewness:	-4.235
Kurtosis:	39.137
Minimum :	-3.370
25th % :	3.599
Median :	3.940
75th % :	4.195
Maximum :	5.704



NONE

Background data analysis

	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.141	Fill-Zn	Number of samples		Uncensored values		Sort data	
3	0.5816	Fill-Zn	Uncensored	240	Mean	482.890	Create report	
4	14.198	Fill-Zn	Censored		Lognormal mean	304.353	Clear all	
5	17.8571	Fill-Zn	Detection limit or PQL	-----	Std. devn.	2083.195	Histogram	
6	18.171	Fill-Zn	Method detection limit	-----	Median	92.65	5 10 20	
7	22.4	Fill-Zn	TOTAL	240	Min.	0.141	Clear messages	
8	22.6	Fill-Zn	ENTER DATA		Max	24000	Calculate UCL	
9	23	Fill-Zn	Distribution Decision				Lognormal	
10	23.9869	Fill-Zn	Probability plot method		W test	D'Agostino's test	Normal	
11	25.5	Fill-Zn	Lognormal distribution?		Normal distribution?		Neither	
12	27.7	Fill-Zn	r-squared is: 0.899		r-squared is: 0.179		Sample size	
13	28.1	Fill-Zn	Recommendations:					
14	28.1615	Fill-Zn	Reject BOTH lognormal and normal distributions. See Statistics Guidance.					
15	29.8	Fill-Zn	Upper Confidence Limit (UCL)					
16	30.769	Fill-Zn						
17	32.061	Fill-Zn						
18	32.538	Fill-Zn						
19	33.5	Fill-Zn						
20	34	Fill-Zn						
21	35.5	Fill-Zn						
22	35.9	Fill-Zn						
23	36	Fill-Zn						
24	36.625	Fill-Zn						
25	36.7347	Fill-Zn						
26	37.051	Fill-Zn						
27	37.088	Fill-Zn						
28	37.1	Fill-Zn						
29	37.389	Fill-Zn						
30	38.208	Fill-Zn						
31	38.2204	Fill-Zn						
32	38.5	Fill-Zn						
33	39.7	Fill-Zn						
34	39.8	Fill-Zn						
35	41.0526	Fill-Zn						
36	42.8	Fill-Zn						
37	42.8	Fill-Zn						
38	42.9	Fill-Zn						
39	44.328	Fill-Zn						
40	45.552	Fill-Zn						
41	45.8	Fill-Zn						
42	46.5	Fill-Zn						
43	46.76	Fill-Zn						
44	46.973	Fill-Zn						
45	47	Fill-Zn						
46	47.6	Fill-Zn						
47	47.6764	Fill-Zn						
48	48.637	Fill-Zn						
49	49	Fill-Zn						
50	49.2	Fill-Zn						
51	50.0564	Fill-Zn						
52	50.7822	Fill-Zn						
53	51.0625	Fill-Zn						
54	51.2432	Fill-Zn						
55	52	Fill-Zn						
56	52.2	Fill-Zn						
57	52.5	Fill-Zn						
58	53.6	Fill-Zn						
59	56.4	Fill-Zn						
60	56.8	Fill-Zn						
61	57.7	Fill-Zn						
62	57.74	Fill-Zn						
63	57.784	Fill-Zn						
64	58.342	Fill-Zn						
65	59.82	Fill-Zn						
66	60.124	Fill-Zn						
67	61.5	Fill-Zn						

Background data analysis

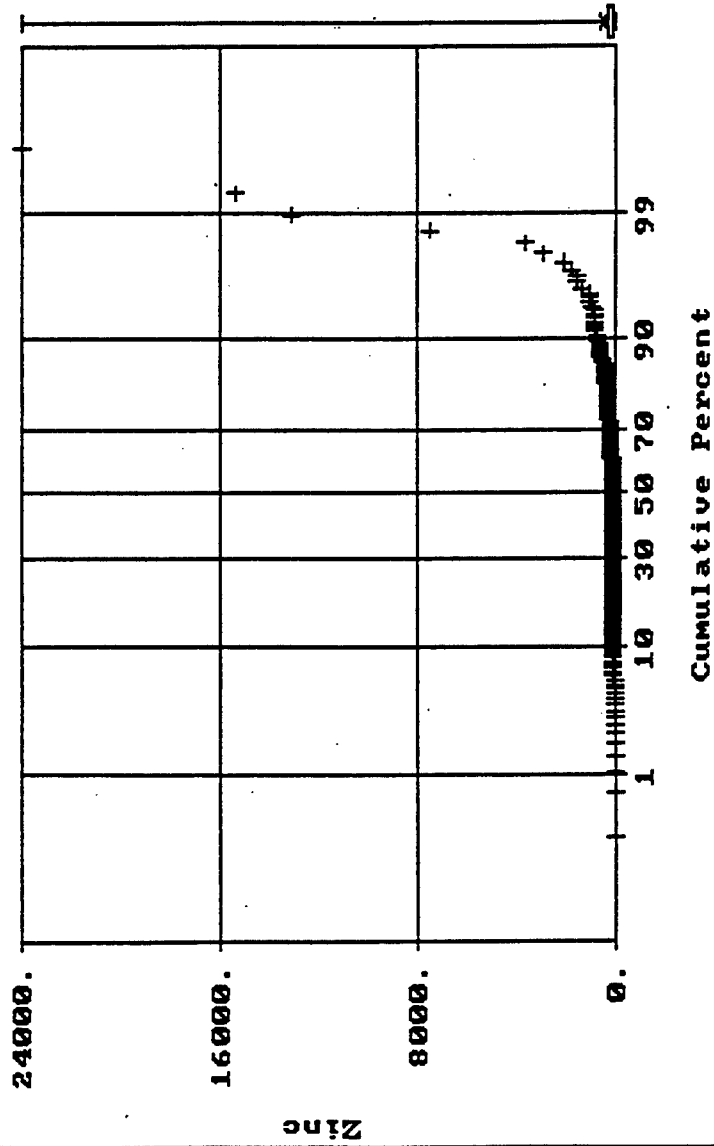
	A	B	C	D	E	F	G	H
1	DATA	ID	MTCASat Site Module V2.0				Paste values	
2	0.141	Fill-Zn	Number of samples		Uncensored values		Sort data	
3	0.5816	Fill-Zn	Uncensored	240	Mean	482.890	Create report	
4	14.198	Fill-Zn	Censored		Lognormal mean	304.353	Clear all	
5	17.8571	Fill-Zn	Detection limit or PQL		Std. devn.	2083.195	Histogram	
6	18.171	Fill-Zn	Method detection limit		Median	92.65	5	10
7	22.4	Fill-Zn	TOTAL	240	Min.	0.141	20	
8	22.6	Fill-Zn	ENTER DATA		Max	24000		
9	23	Fill-Zn	Distribution Decision					
10	23.9869	Fill-Zn	Probability plot method		W test	D'Agostino's test		
11	25.5	Fill-Zn	Lognormal distribution?		Normal distribution?			
12	27.7	Fill-Zn	r-squared is: 0.899		r-squared is: 0.179			
13	28.1	Fill-Zn	Recommendations:					
14	28.1615	Fill-Zn	Reject lognormal distribution.					
15	29.8	Fill-Zn	Y value is -12.6457. This lies outside the tabled values of 1.5352 and -2.3566					
16	30.769	Fill-Zn	Reject normal distribution.					
17	32.061	Fill-Zn	Y value is -98.0211. This lies outside the tabled values of 1.5352 and -2.3566					
18	32.538	Fill-Zn	Upper Confidence Limit (UCL)					
19	33.5	Fill-Zn						
20	34	Fill-Zn						
21	35.5	Fill-Zn						
22	35.9	Fill-Zn						
23	36	Fill-Zn						
24	36.625	Fill-Zn						
25	36.7347	Fill-Zn						
26	37.051	Fill-Zn						
27	37.088	Fill-Zn						
28	37.1	Fill-Zn						
29	37.389	Fill-Zn						
30	38.208	Fill-Zn						
31	38.2204	Fill-Zn						
32	38.5	Fill-Zn						
33	39.7	Fill-Zn						
34	39.8	Fill-Zn						
35	41.0526	Fill-Zn						
36	42.8	Fill-Zn						
37	42.8	Fill-Zn						
38	42.9	Fill-Zn						
39	44.328	Fill-Zn						
40	45.552	Fill-Zn						
41	45.8	Fill-Zn						
42	46.5	Fill-Zn						
43	46.76	Fill-Zn						
44	46.973	Fill-Zn						
45	47	Fill-Zn						
46	47.6	Fill-Zn						
47	47.6764	Fill-Zn						
48	48.637	Fill-Zn						
49	49	Fill-Zn						
50	49.2	Fill-Zn						
51	50.0564	Fill-Zn						
52	50.7822	Fill-Zn						
53	51.0625	Fill-Zn						
54	51.2432	Fill-Zn						
55	52	Fill-Zn						
56	52.2	Fill-Zn						
57	52.5	Fill-Zn						
58	53.6	Fill-Zn						
59	56.4	Fill-Zn						
60	56.8	Fill-Zn						
61	57.7	Fill-Zn						
62	57.74	Fill-Zn						
63	57.784	Fill-Zn						
64	58.342	Fill-Zn						
65	59.82	Fill-Zn						
66	60.124	Fill-Zn						
67	61.5	Fill-Zn						

Calculate UCL
 Lognormal
 Normal
 Neither
 Sample size

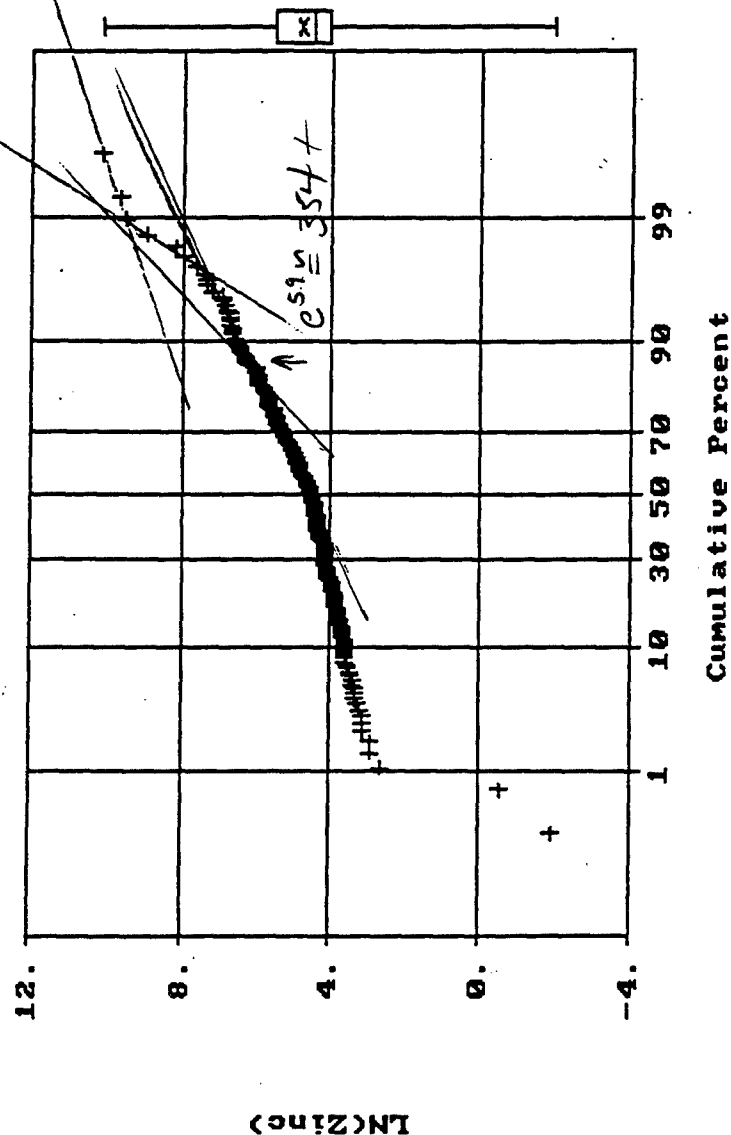
Normal Probability Plot for Zinc
Data file: fil-all.dat

S t a t i s t i c s

N Total :	371
N Miss :	131
N Used :	240
Mean :	482.890
Variance:	4339704.000
Std. Dev:	2083.196
% C.V. :	431.401
Skewness:	8.679
Kurtosis:	85.478
Minimum :	.141
25th % :	57.700
Median :	92.650
75th % :	247.126
Maximum :	24000.000



Normal Probability Plot for LN(Zinc)
Data file: fil-all.dat



Statistics

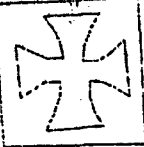
N Total :	371
N Miss :	131
N Used :	240
Mean :	4.825
Variance :	1.787
Std. Dev :	1.337
% C.V. :	27.703
Skewness :	.242
Kurtosis :	7.753
Minimum :	-1.959
25th % :	4.055
Median :	4.529
75th % :	5.510
Maximum :	10.086

C75 = 1800

Appendix C
Crissy Field Study Area

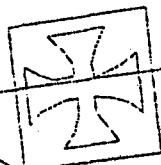
C.1 Building 633 Soil Borings	C-2
C.2 Building 637	C-13
Soil Borings.....	C-14
JMM Soil Borings	C-20
Well Information.....	C-27
JMM Well Information	C-51
C.3 Building 638 Soil Borings	C-95
C.4 Building 640 Soil Borings	C-97
C.5 Building 642 Soil Borings	C-102
C.6 Building 643 Soil Borings	C-107
C.7 Landfill 7	C-116
Sediment Samples.....	C-117
Test Pits	C-123
Soil Borings.....	C-129
Discrete Groundwater Sample Sheets	C-196
Well Information.....	C-214
C.8 Crissy Field Lift Station.....	C-303
Soil Borings.....	C-304
Discrete Groundwater Sample Sheets	C-309
C.9 Building 637 Area TPH Concentration Figures for Groundwater.....	C-312

1433040 1433120 1433200 1433280 1433360 1433440 1433520



Active
Helipad

Crissy U.S. Army Helipad



Inactive
Helipad

837-31
<50

837-30
<50

837-10

837-08

837-32
300

837-09

Mason Street

837-27
480

837-05

656

837-29
<50

837-07

Old Mason

643

641

640

642

639

837-28
1200

837-28
(FP)

837-06

837-04

PZ-6

837-04

PZ-4

630

646

15

20

25

30

35

40

45

55

60

65

70

75

80

85

1433040

1433120

1433200

1433280

1433360

1433440

1433520

2

1433440

1433520

1433600

1433680

1433760

1433840

1433920

Crissy U.S. Army Helipad

837-08

Mason Street

656

LF7-01
LF07GW11
73

Old Mason Street

642

639

837-26
1200

837-03

837-25
180

634

837-24
<50
837-02

Consolidated
Motor Pool

638

633

632

646

1433440

1433520

1433600

1433680

1433760

1433840

1433920

Legend



656



(FP)

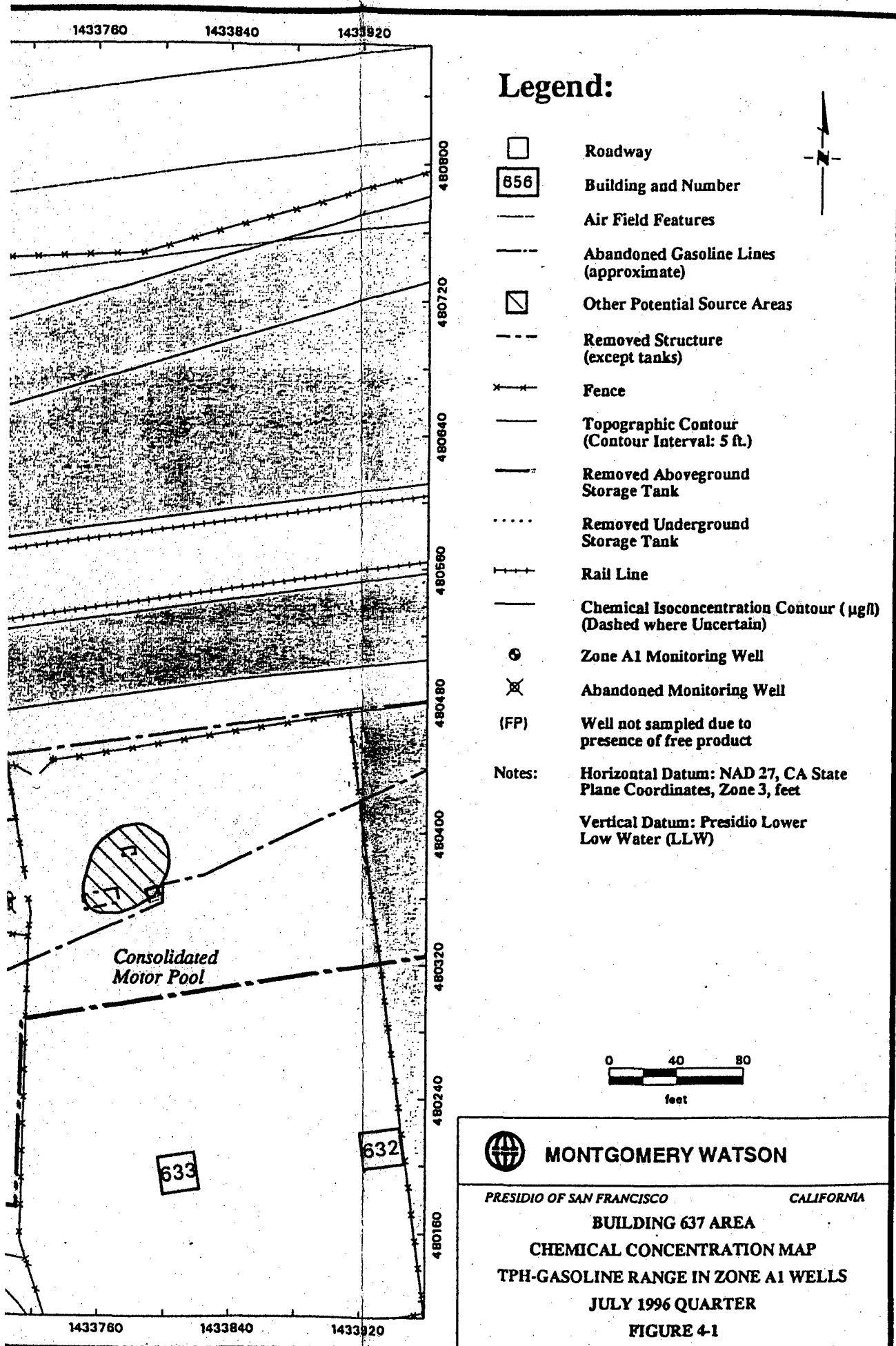
Notes:

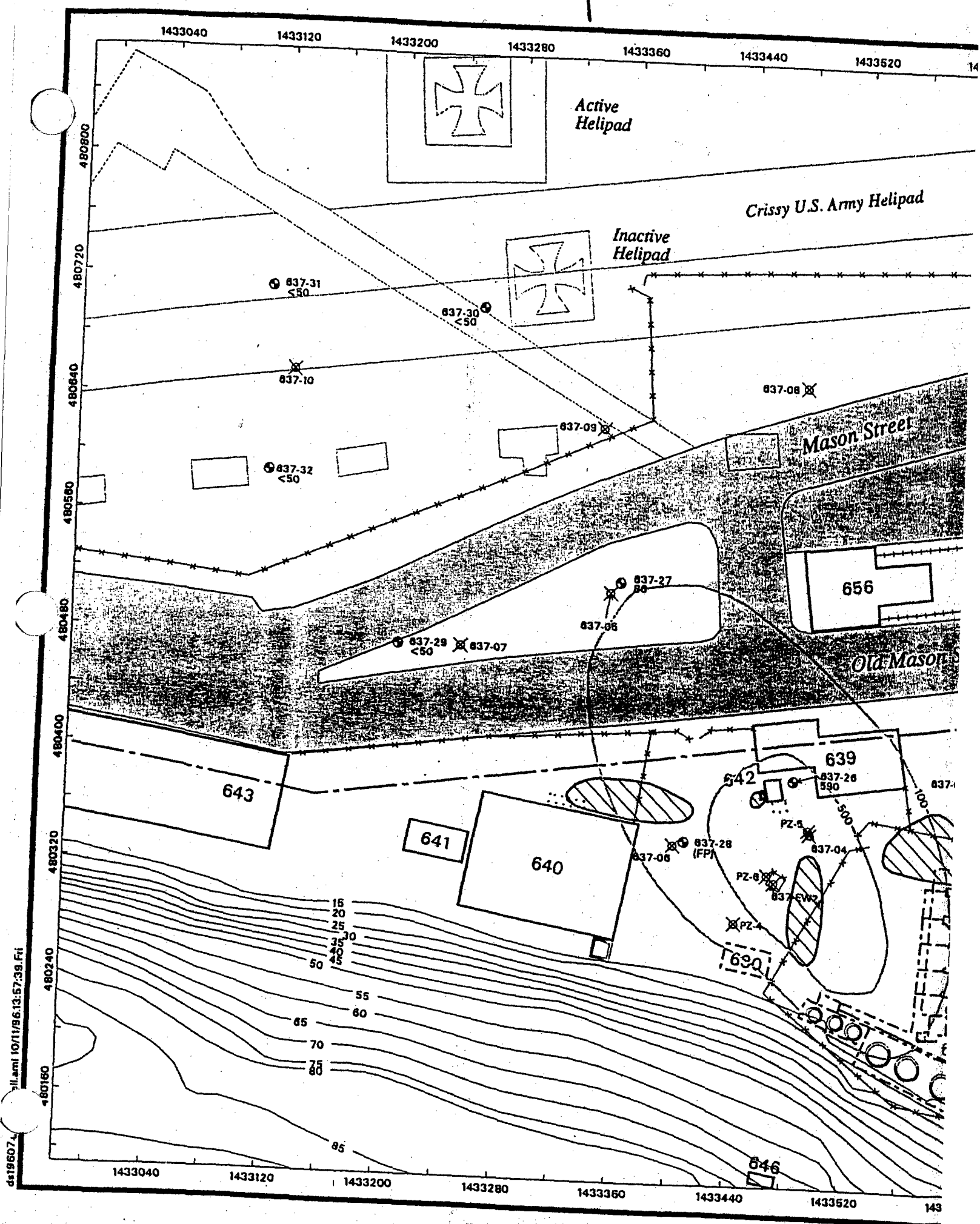


PRESIDIC

C

TPH-(





1440	1433520	1433600	1433680	1433760	1433840	1433920
------	---------	---------	---------	---------	---------	---------

rissey U.S. Army Helipad

837-08 ~~X~~

Mason Street

656

LF7-01
LF07GW11
C50

Old Mason Street

639

037-20
590

837-03 837-25

634

037-24
 <50
 037-02

Consolidated Motor Pool

638

633

632

~~646~~

Legend:

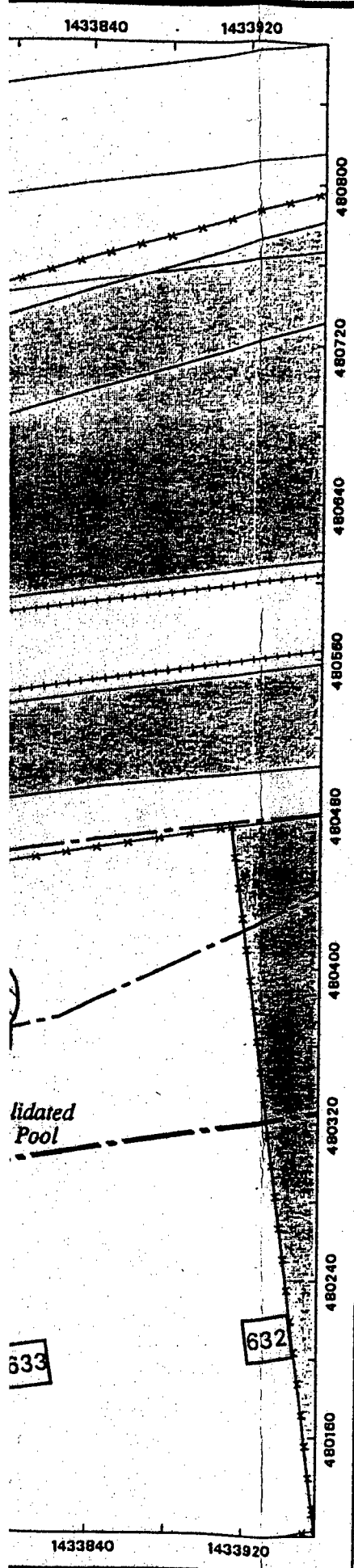


Notes: **Horizontal**
 Plane Coc

 Vertical D
 Low Wat



**PRESIDIO OF SAN FRANCISCO
BUILDING
CHEMICAL COMPANY
TPH-DIESEL RAN
JULY 1961
FIO**



Legend:

- Roadway
- Building and Number
- Air Field Features
- Abandoned Gasoline Lines (approximate)
- Other Potential Source Areas
- Removed Structure (except tanks)
- Fence
- Topographic Contour (Contour Interval: 5 ft.)
- Removed Aboveground Storage Tank
- Removed Underground Storage Tank
- Rail Line
- Chemical Isoconcentration Contour ($\mu\text{g/l}$) (Dashed where Uncertain)
- Zone A1 Monitoring Well
- Abandoned Monitoring Well
- (FP) Well not sampled due to presence of free product

Notes: Horizontal Datum: NAD 27, CA State Plane Coordinates, Zone 3, feet
Vertical Datum: Presidio Lower Low Water (LLW)



MONTGOMERY WATSON

PRESIDIO OF SAN FRANCISCO

CALIFORNIA

BUILDING 637 AREA

CHEMICAL CONCENTRATION MAP

TPH-DIESEL RANGE IN ZONE A1 WELLS

JULY 1996 QUARTER

FIGURE 4-2